June 28, 2002

MEMORANDUM TO: Chairman Meserve

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

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

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

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

1. Submitted to the Commission proposed rulemaking to 10 CFR 50.44
2. Provided draft NUREG-1633 and draft public information brochure on use of KI to Commission
3. Submitted to the Commission proposed rulemaking to 10 CFR 52
4. Completed the direct license transfer order for Vermont Yankee transferring operating responsibility from Vermont Yankee Nuclear Power Corporation to Entergy Nuclear Operations
5. Completed the review of SNL test protocol for spent nuclear fuel response to impacts

Since the April 2002 update, there were schedule changes associated with several ongoing NRC staff activities, including: (1) the indirect transfer of the license for the Humboldt Bay Power Plant resulting from the proposed separation of Pacific Gas & Electric Co. (PG&E) from its current parent organization, PG&E Corporation; (2) the second round of hearings by the ASLB on the ISFSI license application by Private Fuel Storage, LLC; and (3) proposed rulemaking to10 CFR 40.51 for transfer of exempt material.

Attachment: As stated

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

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DEDR R/F

STAFF RESPONSE TO TASKING MEMORANDUM AND STAKEHOLDER CONCERNS

May 31, 2002

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

A. Risk-Informed Regulatory Initiatives
1) Risk-Informing the Scope of Certain Part 50 Requirements (Option 2)

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

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

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

Through December 2002		
Milestone	Date	Lead
5. Submit proposed rulemaking to Commission (199900061)	09/30/02	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

Beyond December 2002		
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. 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. The WOG pilot plants (Wolf Creek and Surry) held its IDPs on October 24-25, 2001, and February 4, 2002, respectively. The IDP for the CEOG pilot (Palo Verde) was completed during March 2002.

4. NEI has informed the staff that its best estimate for submittal of the revised draft of NEI 00-04 is ~~the third week of June~~ June 28, 2002. Significant changes from the previous draft are anticipated in view of the staff comments, ACRS comments and pilot plant experience. The staff ~~now estimates that the~~ plans to meet with ACRS ~~meeting on the guidance will be~~ in September to discuss the proposed rule package including the ACRS concerns with the implementation guidance. ~~(no August meeting is held).~~

5. The comment period on the draft rule language ended on December 31, 2001. Ten sets of comments were submitted. The staff reposted the rule language on the NRC's website for information on April 5, 2002. ~~NEI has stated that some of the provisions in the draft rule pose potential implementation issues. They are preparing a letter to inform the staff of these issues and to propose changes that would improve the rule and resolve these issues. The staff anticipates receiving this letter in mid-May. Based upon this information, as well as the above noted schedule for submittal of NEI 00-04, the staff is revising the schedule for submitting the proposed rule package to September 30, 2002.~~ NEI provided comments on the second draft of the proposed rule by letter dated May 15, 2002 indicating their view that substantive issues remain to be resolved. The staff also expects ASME to provide comments in early June 2002. Staff is planning to meet with NEI, ASME, and other stakeholders in mid-June 2002 to discuss the draft rule language.

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.

Prior to June 2002		
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)	7/23/01C	M. Drouin, RES
6. Submit proposed 10 CFR 50.44 rulemaking to the Commission (200100003)	5/13/02C	A. Markley, NRR/DRIP

Through December 2002		
Milestone	Date	Lead
~~6~~7. Complete technical work on ECCS reliability requirements for 50.46	07/02	M. Drouin, RES
~~7~~8. Prepare Research Information Letter to provide technical basis for revising Reg. Guide 1.157 to incorporate performance-based ECCS evaluation model and acceptance criteria for 50.46	07/02	R. Meyer, RES

Beyond December 2002		
Milestone	Date	Lead
None		

Comments:

6. Proposed rulemaking submitted to Commission in SECY-02-0080.

~~6. Date revised due to delay in receiving necessary information from external sources and staff unavailability as a result of post-September 11th events.~~

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.

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

Through December 2002		
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

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

Comments:

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.

Prior to June 2002		
Milestone	Date	Lead
1. Develop revised PTS risk acceptance criteria (199900115) (SECY-00-0140)	6/23/00C	N. Siu, RES
~~2. Provide next updated status on PTS reevaluation to Commission (199900115)~~	~~9/28/01C~~	~~D. Jackson, RES~~
~~3~~2. Present details of revised PTS methodology to ACRS	1/15-16/02C	E. Hackett, RES

Through December 2002		
Milestone	Date	Lead
~~4~~3. Develop integrated PTS risk estimate for study plants.	~~5/02~~ TBD	H. Woods, RES
~~5~~4. Publish NUREG/CR report describing a generic flaw density and size distribution	6/02	D. Jackson, RES
~~6~~5. Complete analyses and draft technical basis for revision of PTS rule.	11/02	M. Kirk, RES
~~7~~6. Present the technical basis for proposed changes in 10 CFR 50.61 PTS screening criteria to ACRS	12/02	S. Malik, RES
7. Present the technical basis for proposed changes in 10 CFR 50.61 PTS screening criteria to NRR for consideration of potential rulemaking.	12/02	N. Chokshi, RES

Beyond December 2002		
Milestone	Date	Lead
None		

Comments:

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

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.

Prior to June 2002		
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 (2000000070) (SECY-01-0176)	9/20/01C	J. Luehman, OE
8. Discrimination Task Group Issues final report to EDO (200000090)	4/26/02C	B. Westreich, OE

Through December 2002		
Milestone	Date	Lead
9. Inform the Commission of the status of its review on the use of Alternative Dispute Resolution (ADR) in the NRC's Enforcement Program, including a summary of public comments on the issue and plans for providing a final recommendation (200000070)	~~5/20/02~~ 6/4/02	J. Lubinski, OE C. Cameron, OGC
10. Recommendations regarding the Discrimination Task Group Report to the Commission (200000090)	~~6/28/02~~ 7/02	B. Westreich, OE
11. ~~Final Staff Recommendation to Commission regarding use of Alternative Dispute Resolution (ADR) in Enforcement~~ Provide the Commission a proposed pilot program for approval or provide an alternative recommendation regarding the use of ADR.	11/15/02	J. Lubinski, OE

Beyond December 2002		
Milestone	Date	Lead
None		

Comments:

~~8. The SRM issued on 11/7/01 for 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. However, additional public comments were received in February 2002. The staff is finalizing the language of the report and expects to complete the final report by 4/26/02.~~

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.~~ The senior management review team completed its review on June 14, 2002. The preparation of the associated Commission paper is expected to be completed by mid-July 2002.

11. ~~A public workshop was held on March 12, 2002, in Gaithersburg, MD, to explore the potential use of ADR in the NRC enforcement process. Additionally, the public comment period was extended to March 29, 2002. The staff now plans to provide a status of its review to the Commission in May and re-engaging stakeholders before making final recommendations. A final recommendation regarding ADR will be provided by 11/15/02.~~ The staff plans to re-engage stakeholders through the issuance of a FRN

requesting public comments on its plans to develop a pilot program and may hold public meetings or workshops. The staff is seeking stakeholder input in order to support development of the proposed pilot program or alternative recommendation.

III. Topic Area: Reactor Oversight

A. Reactor Oversight Process

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

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

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

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

Prior to June 2002		
Milestone	Date	Lead
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~~

Prior to June 2002		
~~6. Conduct Agency Action Review Meeting to discuss agency response for plant performance assessment inputs~~	~~6/28/01C~~	~~M. Johnson, DIPM~~
~~7~~5. 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~~6. 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~~7. Complete plant specific SDP notebooks for all plants	9/28/01C	J. Kauffman, RES
~~13~~8. 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~~9. Provide a summary report describing NRC's historical efforts related to development and use of performance indicators	1/31/02C	M. Satorius, DIPM
~~15~~10. Provide status on SRM items with the annual ROP self-assessment results (200100034)	4/03/02C	M. Johnson, DIPM
~~16~~11. Issue SECY paper on the Industry Trends Program (200100034)	4/01/02C	T. Boyce, DIPM
~~17~~12. Issue annual SECY paper to the Commission on the Accident Sequence Precursor (ASP) program (199200101)	3/08/02C	P. Baranowsky, RES
~~18~~13. Conduct Agency Action Review Meeting	4/02C	C. Carpenter, DIPM

Through December 2002		
Milestone	Date	Lead
None		

Beyond December 2002		
Milestone	Date	Lead
14. Conduct end-of-cycle review meetings for each plant	02/03	Regional Administrators
15. Conduct Agency Action Review Meeting	4/03	C. Carpenter, DIPM
16. Conduct public meetings at all operating sites to discuss the results of plant performance	4/03	Regional Administrators
17. Issue SECY paper on the Industry Trends Program	4/03	T. Boyce, DIPM
18. Issue SECY paper on the annual ROP self-assessment	4/03	C. Carpenter, DIPM
19. Brief Commission on the results of annual ROP self-assessment and Industry Trends Program	5/03	C. Carpenter, DIPM

Comments:

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.

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

Through December 2002		
Milestone	Date	Lead
9. Issue iSTS Amendment for FitzPatrick	8/02	T. Le, DRIP
10. Issue iSTS Amendment for Prairie Island	7/02	C. Schulten, DRIP

Beyond December 2002		
Milestone	Date	Lead
None		

Comments:

9. Licensee is re-evaluating their original ITS conversion submittal for final submittal. Entergy is the new licensee and the previous submittal was prepared by the former

licensee (New York Power Authority). Final submittal has not been received by the staff as of 4/25/02. Date is tentative pending resubmittal.

IV. Topic Area: Reactor Licensing and Oversight

B. Decommissioning Regulatory Improvements

SES Manager: Christopher Grimes , 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.

Prior to June 2002		
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

Through December 2002		
Milestone	Date	Lead
3. Submit policy options paper to the Commission (200000126)	TBD	B. Huffman DRIP/RPRP
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

Beyond December 2002		
Milestone	Date	Lead
None		

Comments:

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 NRC's ongoing comprehensive review of its security and safeguards programs.

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

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

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

Through December 2002		
Milestone	Date	Lead
10. Publish final NUREG-1633	TBD	K. Halvey Gibson, DIPM
11. Post bid for KI procurement	12/21/02C	DCPM/K. Halvey Gibson
12. Award contract for KI	2/1/02C	K. Halvey Gibson/DCPM

Beyond December 2002		
Milestone	Date	Lead
None		

Comments:

~~2,4. Additional time was required to resolve issues on both the draft NUREG and the draft public information brochure.~~

11,12. DCPM in support of NRR request, prepared and posted offering for KI procurement. Bids were received on January 9, 2002. The contract was awarded to Anbex, Inc. on February 1, 2002. As of, April 26, 2002, the States of Maryland, Massachusetts, New York, Connecticut, Arizona, New Hampshire, Vermont, Florida, Delaware, New Jersey, and Alabama have received KI shipments. ~~KI tablets have been ordered for New Jersey~~. Pennsylvania has submitted a request that requires additional information prior to submittal for FEMA review and subsequent KI order. Ohio has submitted its request, which was forwarded to FEMA for 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.

Prior to June 2002		
Milestone	Date	Lead
1. Update Commission on status of NFPA activities (199900032). Commission paper signed 12/22/00.	12/22/00C	E. Connell, SPLB
2. Conduct public meeting with interested stakeholders	8/30/01C	E. Connell, SPLB
3. Develop a revised rulemaking plan based on interactions with industry regarding their concerns with NFPA 805 (199900032)	10/09/01C	L. Whitney, SPLB

Through December 2002		
Milestone	Date	Lead
4. Brief ACRS fire protection subcommittee and Full Committee 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)	7/31/02	L. Whitney, SPLB
7. Publish proposed rule change for public comment	11/02	L. Whitney, SPLB

Beyond December 2002		
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 has placed draft rule text on the NRC Rulemaking Web site for early public comment. Comments received were generally in favor of this initiative.

6. The staff has received input from OGC on rule language enhancements and Statements of Consideration content options. The staff is revising the rulemaking package in accordance with all comments received, and will enter the proposed rule package in the inter-office concurrence chain in early May 2002.

6. The staff has revised the date to the Commission, but remains within the bounds of the October 9, 2001, memorandum from the EDO to the Commission (see line item 3 above).

IV. Topic Area: Reactor Licensing and Oversight

E. 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_2 fuel is adequate for MOX fuel.

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

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

Beyond December 2002		
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

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

Through December 2002		
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

Beyond December 2002		
Milestone	Date	Lead
8. Complete final agreement with JAERI and NRC	TBD	A. Szukiewicz, RES
9. The activity is long-term with an anticipated completion date for the RIA tests and issuance of modifications to the associated SRP and Regulatory Guide 1.77 in 2008	TBD	R. Meyer, RES

Comments:

8. The agreement with JAERI includes data for both high burnup fuel and MOX (IV.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

G. Power Uprates

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

Objective: Review licensee applications for increased reactor power levels.

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

Prior to June 2002		
13. Completion of staff review of Hope Creek 1.4% power uprate amendment request. Application received on 12/01/00.	07/30/01C	M. Shuaibi, DLPM
14. Completion of staff review of Beaver Valley Units 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.	03/29/02C	M. Shuaibi, DLPM
23. Completion of staff review of Waterford 3 1.4% power uprate amendment request. Application dated 09/21/01.	03/29/02C	M. Shuaibi, DLPM
24. Completion of staff review of South Texas Units 1 and 2 1.4% power uprate amendment requests. Application dated 08/22/01.	04/12/02C	M. Shuaibi, DLPM
25. Completion of staff review of Arkansas Nuclear One Unit 2 7.5% power uprate amendment request. Application received on 12/19/00.	04/24/02C	M. Shuaibi, DLPM

Prior to June 2002		
26. Completion of staff review of Sequoyah 1 and 2 1.3% power uprate amendment requests. Application dated 11/15/01.	04/30/02C	M. Shuaibi, DLPM

Through December 2002		
Milestone	Date	Lead
27. 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~~ 06/2002	M. Shuaibi, DLPM
28. Completion of staff review of GE topical report for BWR Thermal Power Optimization Power Uprates (Measurement Uncertainty Recapture Power Uprates).	~~05/2002~~ 06/2002	M. Shuaibi DLPM
29. Completion of staff review of Davis-Besse Unit 1 1.63% power uprate amendment request. Application dated 10/12/01.	TBD	M. Shuaibi DLPM
30. 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
31. Completion of staff review of Grand Gulf 1.7% power uprate amendment request. Application dated 1/31/02.	07/2002	M. Shuaibi DLPM
32. Completion of staff review of Palo Verde 2 2.9% power uprate amendment request. Application dated 12/21/02.	12/2002	M. Shuaibi, DLPM

Beyond December 2002		
Milestone	Date	Lead
None		

Comments:

27. General Electric Nuclear Energy (GENE) requested approval by December 2001. The staff decided to request a review of the safety evaluation by the Office of General Counsel. To allow time for the review, the staff's schedule for completion has changed from May 2002 to June 2002. ~~The staff's schedule for completion is May 2002. However, resolution of GENE claims of proprietary content may delay completion to June 2002.~~

28. ~~Completion date of May 2002 is contingent upon planned completion of other higher priority reviews of plant-specific power uprate requests.~~ The staff technical review is substantially complete; however, one area of the safety evaluation was not completed until late May 2002. Therefore, the staff now expects to issue the safety evaluation by the end of June 2002, one month later than previously planned.

29. The staff is evaluating the impact of work related to control rod drive mechanism (CRDM) and vessel head issues on the schedule for this power uprate.

31. Application was dated January 31, 2002. The licensee requested completion of staff review before June 2002 to support summer electrical demand. The staff has reviewed the licensee's application and determined that there is a need to request additional information. Therefore, the staff estimates completion in July 2002.

IV. Topic Area: Reactor Licensing and Oversight

H. 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.

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

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

Through December 2002		
Milestone	Date	Lead
7. (SGAP Item 1.14) Staff completes review and draft safety evaluation of NEI 97-06 including addressing issues raised in OIG report and IP2 lessons learned report	08/31/02	E. Murphy, DE
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.	12/31/02	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 refinded 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.	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	H. Woods, RES
16. (SGAP Item 3.1.i) Conduct tests of degraded tubes under pressure and with axial and bending loads to validate the analytical results.	06/03	J. Muscara, RES
17. (SGAP Item 3.11) In order to resolve GSI 163, it is necessary to complete the work associated with SGAP Items 3.1 through 3.5 and 3.7 through 3.9. Upon completion of those tasks, develop detailed milestones associated with preparing a GSI resolution document and obtaining the necessary approvals for closing the GSI, including ACRS acceptance of the resolution.	12/31/05	M. Banerjee, DLPM
18. (SGAP Item 3.12) Develop outline and a detailed schedule for completing DG 1073, “Plant Specific Risk-Informed Decision Making: Induced SG Tube Rupture	12/31/05	L. Lund, DE

General Comments:

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

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

to Address Differing Professional Opinion on Steam Generator Tube Integrity (WITS Item 200100026)," (ADAMS ML011300073).

Milestone Comments:

7,12,14. The scheduled completion dates for these milestones are dependent on industry actions related to NEI 97-06, "Steam Generator Program Guidelines." The target dates assume industry submittal of an acceptable generic license change package to NRC by 6/30/02. The staff is currently discussing the implications of the Commission's 1996 Perry decision on the scope and schedule of the NEI 97-06 initiative.

3. The SGAP item 2.6 has been broken down into two activities to address direction from the Commission in SRM (M11203) dated 12/26/01 (refer to milestone 13).

8. The target completion date for item 3.9 has been changed to accommodate higher priority work including staff activities to support agency response to the September 11 event as well as regular full load of licensing issues.

IV. Topic Area: Reactor Licensing and Oversight

I. New Reactor Licensing Readiness

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

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

Prior to June 2002		
Milestone	Date	Lead
1. Staff Requirements Memorandum	2/13/01	
2. SRM response describing future licensing preparation activities (200100018)	5/01/01C	J. Sebrosky, NRR/NRLPO
3. Submit a SECY paper (with recommendations) to the Commission resulting from the Future Licensing and Inspection Readiness Assessment (FLIRA) (200100018) (SECY-01-0188)	10/12/01C	N. Gilles, NRR/NRLPO
4. Submit a SECY paper to the Commission to address legal and financial issues raised by Exelon regarding licensing of the pebble bed modular reactor (PBMR) (200100080)(SECY-01-0207)	11/20/01C	A. Cubbage, NRR/NRLPO
5. Submit a SECY paper to the Commission to provide recommendations regarding programmatic inspections, tests, analyses, and acceptance criteria (ITAAC) (20000095)(SECY-02-0067)	4/05/02C	J. Sebrosky, NRR/NRLPO
6. Submit a SECY paper to the Commission to address design acceptance criteria for AP1000 (200100108) (SECY-02-0059)	4/01/02C	L. Burkhart NRR/NRLPO
7. Submit to the Commission a proposed rule containing 10 CFR Part 52 revisions (199700060)(SECY-02-0077)	~~4/29/02~~ 5/08/02C	J. Wilson, NRR/NRLPO
8. Submit a SECY paper to the Commission with the first semi-annual update of the status of new reactor licensing activities. (200100018)(SECY-02-0076)	5/08/02C	J. Williams, NRR/NRLPO

Through December 2002		
Milestone	Date	Lead
9. Provide SECY papers on key policy and technical issues on High Temperature Gas Cooled Reactor (HTGR)	06/02	J. Flack, RES
10. Submit a SECY paper providing final policy recommendations on issues associated with modular and merchant plants.(200100080)	8/30/02	A. Cubbage, NRR/NRLPO
~~9~~11. Provide recommendations to Commission regarding NEI petition PRM 52-1 proposing to treat previously-reviewed information as resolved.	09/24/02	S. Koenick, NRR/NRLPO
~~10~~12. Provide recommendations to Commission regarding NEI petition PRM 52-2 for alternative sites, alternate sources, and need for power	09/24/02	N. Gilles, NRR/NRLPO
13. Provide SECY Paper on Advanced Reactor Research Plan (200200066)	11/02	J. Flack, RES
14. Provide SECY paper on recommendations on the policy issues associated with milestone 9.	12/02	J. Flack, RES

Beyond December 2002		
Milestone	Date	Lead
~~11~~15. Submit to the Commission a final rule containing 10 CFR Part 52 revisions (199700060)	8 months after SRM is issued on proposed rule	N. Gilles, NRR/NRLPO
~~16. Submit a SECY paper to the Commission on technical and policy issues for the PBMR (200100086)~~	~~06/03~~	~~D. Carlson, RES/ARG~~

Comments:

9 - 15. Items sequentially renumbered.

~~8. Date changed to permit incorporation of discussion on Exelon's withdrawal from the PBMR project. Paper to be provided to the EDO on May 1, 2002.~~

~~9~~11 - 12. Completion dates based upon date of publication of petitions in the Federal Register.

16. ~~Date revised due to the need to review Exelon's white papers and additional information submitted by Exelon in response to staff questions.~~ The original intent was to develop a

policy paper specifically to address the PBMR. Because of Exelon's announcement to not submit an application for PBMR this SECY paper will not be issued. Instead, a generic policy paper on HTGR will be submitted in the latter part of this year.

IV. Topic Area: Reactor Licensing and Oversight

J. Instrumentation and Control Research Program

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

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

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

Through December 2002		
Milestone	Date	Lead
5. Issue for public comment Reg. Guide 1.180 Rev 1 on EMI/RFI in safety related I&C.	08/02	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

Beyond December 2002		
Milestone	Date	Lead
7. Issue report on ~~the effects of emerging digital technology on~~ the potential vulnerabilities of nuclear power plants to cyber-terrorism.	03/03	R. Shaffer, RES
8. Issue report on the use of wireless technology in nuclear power plant applications.	12/03	C. Antonescu, RES

Comments:

3. A draft report was developed in September 2001, however, additional work is needed to broaden the scope of the effort to better focus on technology emerging within the next 5-10 years.

4. Further consideration of the issue of cyber security yielded the conclusion that this subject warrants more attention and more robust treatment. Therefore, a revised program plan will be developed which includes an expanded scope with participation from outside experts.

5. The requesting Program Office required additional time to review the draft Regulatory Guide due to the assignment of a new reviewer. Therefore, additional time is required to address the comments and prepare the draft Regulatory Guide.

7. Because of the revised program plan, this report will be developed with greater participation of a broader base of stakeholders and will result in a more robust treatment of the issue of cyber security.

V. Topic Area: License Renewal

A. License Renewal (includes Plant Specific Reviews and Generic Process Improvements)

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

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

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

Prior to June 2002		
Milestone	Date	Lead
~~14. Issue Hatch Final Environmental Impact Statement Supplement~~	~~5/31/01C~~	~~C. Carpenter, DRIP~~
15. Issue Turkey Point Draft Environmental Impact Statement Supplement	6/12/01C	C. Carpenter, DRIP
16. Issue Turkey Point SER and identify open items	8/17/01C	C. Grimes, DRIP
17. Provide recommendations to the Commission regarding potential rulemaking (199900104)	8/17/01C	C. Grimes, DRIP
~~18. Issue ANO-1 Supplemental SER~~	~~4/12/01C~~	~~C. Grimes, DRIP~~
19. Decision on ANO-1 license renewal	6/12/01C	C. Grimes, DRIP
~~20. Issue Hatch Supplemental SER~~	~~10/5/01C~~	~~C. Grimes, DRIP~~
21. Receive St. Lucie, Units 1 and 2, license renewal application	11/30/01C	C. Grimes, DRIP
22. Receive Ft. Calhoun license renewal application	1/11/02C	C. Grimes, DRIP
23~~2~~. Issue Turkey Point Final Environmental Impact Statement Supplement	1/11/02C	C. Grimes, DRIP
24~~3~~. Decision on Hatch license renewal	1/15/02C	C. Grimes, DRIP
25~~4~~. Issue Turkey Point Supplemental SER	2/27/02C	C. Grimes, DRIP

Through December 2002		
Milestone	Date	Lead
26~~5~~. Inform the Commission of GALL demonstration project progress and any significant issues (200100059)	7/02	P. Kuo, DRIP
27~~6~~. Decision on Turkey Point license renewal	~~7/02~~ 6/02	P. Kuo, DRIP
28~~7~~. Issue Surry and North Anna Supplemental SER	11/02	P. Kuo, DRIP
29~~8~~. Issue Surry and North Anna Final Environmental Impact Statement Supplements	12/02	P. Kuo, DRIP

Beyond December 2002		
Milestone	Date	Lead
30~~29~~. Issue McGuire and Catawba Supplemental SER	1/03	P. Kuo, DRIP
31~~0~~. Issue McGuire and Catawba Final Environmental Impact Statement Supplements	1/03	P. Kuo, DRIP
32~~1~~. Issue Peach Bottom Supplemental SER	2/03	P. Kuo, DRIP
33~~2~~. Issue Peach Bottom Final Environmental Impact Statement Supplement	2/03	P. Kuo, DRIP
34~~3~~. Issue St. Lucie Final Environmental Impact Statement Supplement	6/03	P. Kuo, DRIP
35~~4~~. Decision on Surry and North Anna license renewal	7/03	P. Kuo, DRIP
36~~5~~. Decision on Peach Bottom license renewal	7/03	P. Kuo, DRIP
37~~6~~. Issue St. Lucie Supplemental SER	7/03	P. Kuo, DRIP
38~~7~~. Decision on McGuire and Catawba license renewal (See comment)	12/03	P. Kuo, DRIP
39~~8~~. Decision on St. Lucie license renewal	6/04	P. Kuo, DRIP

Comments:

38~~7~~. 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 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. The Commission issued an Order (CL1-02-14) on April 12, 2002, agreeing with Duke's and the NRC staff's appeal that MOX contention is inadmissible and therefore reversed the MOX ruling in ASLB's decision (LBP-02-04). The Order also deferred consideration of the SAMA and terrorism issues.

~~38. The St. Lucie license renewal review schedule has been revised to a 25-month plan, because the NRC has not received any petition to intervene or request for a hearing.~~

VI. Topic Area: License Transfers

A. License Transfers

SES Manager: John Zwolinski, Director, DLPM/NRR

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

Prior to June 2002		
Milestone	Date	Lead
1. Complete the order and conforming amendment for the direct license transfer for Oyster Creek resulting from the sale to AmerGen.	6/6/00C	S. Richards, PDI
2. Complete the orders and conforming amendments for the direct license transfers for Monticello and Prairie Island 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	S. Richards, 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	S. Richards, 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	S. Richards, PDI
8. Complete the order and conforming amendment for the acquisition of Vermont Yankee by AmerGen.	7/7/00C	S. Richards, PDI

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

Prior to June 2002		
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	~~L. Barnett,~~ PDIV C. Holden
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	~~L. Barnett,~~ PDIV C. Holden
23. Complete the orders and conforming amendments for Indian Point 1&2 resulting from the acquisition of the plants by Entergy Corporation from Consolidated Edison	8/27/01C	S. Richards, PDI
24. Complete the order and conforming amendment for Palisades resulting from the merger of Consumers Energy Company (owner of Palisades) with Nuclear Management Company LLC.	4/19/01C	S. Bajwa, PDIII
25. Complete the license transfer order for Calvert Cliffs 1&2 resulting from a corporate realignment of Constellation Energy Group, Inc., which will transfer control of the plant to Calvert Cliffs Nuclear Power Plant, LLC.	6/19/01C	S. Richards, PDI
26. Complete the license transfer order for Nine Mile Point 1&2 transferring ownership of the plant to Constellation Nuclear, LLC.	6/22/01C	S. Richards, PDI
27. Complete the indirect license transfer order for Susquehanna 1&2 transferring ownership of the plant to PPL Energy Supply, LLC, a newly-formed and intermediary parent company.	5/25/01C	S. Richards, PDI
28. Complete the direct license transfer order for transfer of the extent of ownership of Kewaunee held by Madison Gas & Electric to Wisconsin Public Service Corporation.	9/22/01C	S. Bajwa, PDIII
29. Complete the revision of existing 9/29/00 license transfer order to Public Service Company of New Mexico for Palo Verde resulting from New Mexico Senate Bill 266 which delays deregulation in New Mexico.	6/25/01C	~~L. Barnett,~~ PDIV C. Holden
30. Complete the indirect license transfer orders for R.E. Ginna and Nine Mile Point 2 transferring ownership of the plants from Rochester Gas & Electric to Energy East Corporation.	12/10/01C	S. Richards, PDI

Prior to June 2002		
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	~~L. Barnett,~~ PDIV C. Holden
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	~~L. Barnett,~~ PDIV C. Holden
34. Complete the license transfer order for Pilgrim Unit 1 to change the plant operator to Entergy Nuclear Operations.	3/15/02C	S. Richards, PDI
35. Complete the supplemental order (to the existing 6/22/01 license transfer order) for Nine Mile Point 1&2 authorizing a phased transfer of NYSEG ownership.	10/30/01C	S. Richards, PDI
36. Complete the direct license transfer order for Vermont Yankee transferring operating responsibility from Vermont Yankee Nuclear Power Corporation to Entergy Nuclear Operations.	~~4/30/02~~ 5/17/02C	S. Richards, PDI
37. Complete the indirect transfer of the license for the Trojan Nuclear Plant, and the material license for the Trojan ISFSI, from Portland General Electric Co. to Northwest Natural Holdco, a new holding company.	3/26/02C	~~L. Barnett,~~ PDIV C. Holden

Through December 2002		
Milestone	Date	Lead
38. Complete the indirect transfer of the license for the Humboldt Bay Power Plant resulting from the proposed separation of Pacific Gas & Electric Co. (PG&E) from its current parent organization, PG&E Corporation, as part of the Plan of Reorganization for PG&E as filed under Chapter 11 bankruptcy proceedings.	~~5/22/02~~ 6/28/02	~~L. Barnett,~~ PDIV C. Holden
39. Complete the direct license transfer order for transfer of ownership of North Anna 1&2 and Surry 1&2 from Virginia Electric Power Co. to Dominion Generation.	~~On hold~~ NRR review terminated 5/13/02	H. Berkow, PDII
40. Complete the direct transfer of the Central Power & Light Co. interest in South Texas 1&2 to CPL Genco LP, a wholly owned subsidiary of American Electric Power Co.	On hold	~~L. Barnett,~~ PDIV C. Holden
41. Complete the review of the license transfer order for the Aerotest Radiography and Research Reactor.	TBD	P. Madden, DRIP/REXB
42. Complete the indirect license transfer for Millstone Units 1, 2, & 3. to Dominion Energy Holdings, Inc., a newly created intermediate subsidiary of Dominion Resources, Inc.	On hold	S. Richards, PDI
43. Complete the license transfer order for Diablo Canyon 1&2 to Diablo Canyon LLC, a new wholly-owned subsidiary of Electric Generation LLC, a new generating company created in connection with the Chapter 11 reorganization plan for PG&E.	7/31/02	~~L. Barnett,~~ PDIV C. Holden
44. Complete the indirect license transfer for D.C. Cook Units 1&2 transferring ownership from Indiana Michigan Power Company to a new parent company, Central and South West Corporation. The transaction is a result of corporate restructuring.	8/29/02	S. Bajwa, PDIII
45. Complete the transfer of the existing operating licenses for Palo Verde Units 1, 2, and 3 from Arizona Public Service Co. (APS) to Pinnacle West Energy Co. The application results from restructuring of APS to conform to deregulation requirements of the State of Arizona requiring separation of electric generation supply from transmission and distribution activities.	TBD	C. Holden, PDIV
46. Complete the direct license transfer order for transfer of ownership of Seabrook Unit 1 from North Atlantic Energy Service Company to FPL Group.	11/15/02	S. Richards, PDI

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.~~

38. A preliminary determination by the staff indicates that a license transfer order is not required for this application. The staff is proceeding with an SE which is necessary for a final determination that a license transfer order will not have to be issued. The target completion date has been further revised to ~~05/22/02~~ 06/28/02 due to staff resource limitations, and other priority issues on the Humboldt Bay project. This date is still ahead of the licensee's requested 7/31/02 completion date.

39. In a letter dated 1/30/02, Virginia Electric Power Company (VEPCO) has requested that the application for order and conforming license amendments directly affecting North Anna 1 and 2, and Surry 1 and 2, [and indirectly affecting Millstone 1, 2, and 3] be held in abeyance. On 12/18/01 the Virginia State Corporation Commission (SCC) denied VEPCO's request to transfer its generation assets to Dominion Generation, an affiliate company. VEPCO has appealed (1/17/02) the SCC's order, ~~and will notify the staff of the outcome. VEPCO will advise further re: the desired disposition of the license transfer requests~~ and has notified the staff that the appeal process is not expected to be completed until the fourth quarter of 2002. By letter dated May 13, 2002, the staff informed the licensee that the staff's review activity has been formally closed, but may be reopened by VEPCO after the appeal of the SSC denial decision has been resolved.

40. Awaiting information from the licensee regarding the name of the new ownership entity.

41. Aerotest Operations has been acquired by a parent company, Autoliv, Inc., resulting in foreign ownership of the facility, which continues to be operated by Aerotest. The current review is being conducted per Action Plan for an indirect license transfer that has, in effect, already occurred (without NRC concurrence).

42. In a letter dated 1/30/02, Virginia Electric Power Company (VEPCO) has requested that the application for order and conforming license amendments directly affecting North Anna 1 and 2, and Surry 1 and 2, [and indirectly affecting Millstone 1, 2, and 3] be held in abeyance. On 12/18/01 the Virginia State Corporation Commission (SCC) denied VEPCO's request to transfer its generation assets to Dominion Generation, an affiliate company. VEPCO has appealed (1/17/02) the SCC's order, ~~and will notify the staff of the outcome. VEPCO will advise further re: the desired disposition of the license transfer requests.~~ and has notified the staff that the appeal process is not expected to be completed until the fourth quarter of 2002.

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.

Prior to June 30, 2002		
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

Through December 31, 2002		
Milestone	Date	Lead
3. Staff issues Part 71 CoC and SER	6/30/02	M. Ross-Lee, SFPO

Beyond December 31, 2002		
Milestone	Date	Lead
None		

Comments:

3. 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. The schedule has been revised as a result of higher priority work activities associated with responding to the post-9/11 initiatives.

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.

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

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

Beyond December 31, 2002		
Milestone	Date	Lead
None		

Comments:

2. On July 16, 1999, NAC submitted an amendment request for the Part 72 application to include all fuel to be stored at Maine Yankee. At the request of NAC to expedite the review of the storage amendment, the staff agreed to a delay in the review of the NAC-UMS transportation application, after issuing a Request for Additional Information (RAI) in August 1999. NAC responded to the staff's August 1999 RAI on June 29, 2000.

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

VII. Topic Area: Materials and Waste Programs

B. ISFSI Licensing - Private Fuel Storage

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

Project Manager: Mark Delligatti

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

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

Prior to June 30, 2002		
Milestone	Date	Lead
1. Issue Draft Environmental Impact Statement (EIS)	6/23/00C	M. Delligatti, SFPO
2. Staff issues supplement to Safety Evaluation Report (SER)	9/29/00C	M. Delligatti, SFPO
3. Begin ASLB Hearing on Safety Contentions (Round 1)	6/19/00C	G. P. Bollwerk, ASLB
4. Issue Final SER	9/29/00C	M. Delligatti, SFPO
5. Complete Final EIS and revision to SER	12/31/01C	M. Delligatti, SFPO
6. Hearing on Environmental Contentions and Remaining Safety Contentions (Round 2)	4/8/02 - ~~5/17/02~~ 6/28/02	G. P. Bollwerk, ASLB

Through December 31, 2002		
Milestone	Date	Lead
None		

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

Comments:

5-7. 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 through ~~May 17, 2002.~~ June 28, 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.

Prior to June 2002		
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	05/28/02C	A. Murphy, RES

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

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

Comments:

VII. Topic Area: Materials Programs and Waste Programs

C. Generic Spent Fuel Transportation Studies
3) Characterization of Fuel Stored in Dry Cask

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

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

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

Through December 2002		
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	09/02	H. Scott, RES

Beyond December 2002		
Milestone	Date	Lead
3. Meet with the ACRS/ACNW subcommittee to discuss ~~results and proposed research plan~~ test.	01/03	H. Scott, RES
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:

2. Date to complete the destructive and non-destructive examinations of Surry fuel revised because the preparation of creep testing specimens turned out to be a far more complicated process than originally anticipated. It involved sectioning of irradiated rods and welding sections to loading grips which required development of new procedures to assure that the creep specimens were not damaged in the process.

3. Due to the above delay and the lack of any joint scheduled meetings of the ACRS/ACNW for the remaining part of the year, we are estimating a briefing date of January 2003.

VII. Topic Area: Materials and Waste Programs

D. Part 41 Rulemaking: Domestic Licensing of Uranium and Thorium Recovery Activities and Uranium Recovery Concerns - and Related Guidance

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

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

Prior to June 2002		
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

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

Beyond December 2002		
Milestone	Date	Lead
None		

Comments:

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

Since that time the staff has incorporated into the guidance documents the information from SECY-99-0011, SECY-99-0012, SECY-99-0013, SECY-01-0026, SECY-99-277, and other studies such as “Surety Estimation Methodology for Groundwater Corrective Action at Title II Conventional Mills,” August 2001; NUREG-6733, “A Baseline Risk-Informed Performance-Based Approach for In Situ Leach Uranium Extraction Licensees,” September 2001; and “Risk Informing Uranium Recovery,” December 2001. NUREG-1569, Rev. 1, “Draft Standard Review Plan For *In Situ* Leach Uranium Extraction License Applications,” and NUREG-1620, Rev. 1, “Draft Standard Review Plan For the Review of a Reclamation Plan for Mill Tailings Sites Under Title II of the Uranium Mill Tailings Radiation Control Act” were issued for public comment January 31, 2002. On February 05, 2002, issuance of NUREGs 1569 and 1620 was

placed in the Federal Register and placed on the NRC Web site. The public comment period closed on April 22, 2002.~~, and the comments received are currently being reviewed.~~ The comments have been docketed and entered into ADAMS. Comments were received from the following: State of New Mexico, Environmental Department; State of Texas, Department of Health; Nuclear Energy Institute; National Mining Association; Wyoming Mining Association; Kennecott Energy; Rio Algom Mining LLC; and NRC Staff.

The comments received have been forwarded to our contractor (CNWRA) for incorporation into the SRPs.

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.

Prior to June 2002		
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

Through December 2002		
Milestone	Date	Lead
3~~4~~. 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~~5~~. Provide recommendations on jurisdictional issues (199800203)	07/02	T. Taylor, IMNS
5~~3~~. Proposed rule for transfer of exempt material (40.51) to SECY	~~5/31/02~~ 7/31/02	G. Comfort, IMNS

Beyond December 2002		
Milestone	Date	Lead
6. Final rule (on transfers from licensees) to Commission (200000041)	6 months after end of public comment period	G. Comfort, 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

Prior to June 2002		
Milestone	Date	Lead
1. Commission Paper, with revised policy statement, to Commission for approval (199800178)(SECY-00-0226)	12/04/00C	J. Parrott, DWM
~~3~~2. Publish revised policy statement in Federal Register	02/02/02C	C. Glenn, DWM
~~4~~3. Hold public meeting to discuss policy statement	04/17/02C	C. Glenn, DWM

Through December 2002		
Milestone	Date	Lead
None		

Beyond December 2002		
Milestone	Date	Lead
4. After DOE's publication of West Valley draft decommissioning EIS, NRC will review and comment on the DEIS.	~~TBD~~ 10/04	C. Glenn, DWM

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

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

Through December 2002		
Milestone	Date	Lead
~~6~~7. 2002 Annual Update to Commission - Status of Decommissioning Program (199900100)	09/2002	L. Camper, DWM

Beyond December 2002		
Milestone	Date	Lead
8 Remove Heritage Minerals Site from SDMP	~~9/2002~~ TBD	C. Gordon, Region I

Comments:

Note: Based on recent survey results, the owner of the Heritage Minerals Site wants to conduct additional characterization and clarify liability for further cleanup. At this time, the timetable for removal of this site from the SDMP list is uncertain, and so reference to this site should be removed from the CTM. Note, however, that the staff has met the Green Book FY 2002 metric

to remove one site from the SDMP by the removal of the Lake City Army Ammunition Plant from the SDMP.

VII. Topic Area: Materials and Waste Programs

H. Prepare for Licensing a HLW Repository
1) Part 63 Rulemaking and Guidance Development: HLW Repository Licensing

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

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

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

Coordination: OGC

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

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

Beyond December 2002		
Milestone	Date	Lead
None		

Comments:

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.

Prior to June 2002		
Milestone	Date	Lead
1. Issue Commission paper (SECY-00-0070) (199400059)	3/23/00C	F. Cardile, IMNS
2. Draft report on methods to survey material containing low levels of radioactivity provided to NMSS.	7/10/01C	C. Trottier, RES
~~3. 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~~
3. National Academy of Sciences study completed (200000039)	3/22/02C	C. Trottier, RES
4. Submit quarterly report to Commission (200000039)	4/15/02C	F. Cardile, IMNS

Through December 2002		
Milestones	Date	Lead
~~7~~5. SECY Paper on results of NAS study, technical basis, and recommendations	6/02	F. Cardile, IMNS
~~8~~6. Commission briefing	8/02	F. Cardile, IMNS
~~9~~7. Issue final NUREG-1640 on individual doses	10/02	C. Trottier, RES

Beyond December 2002		
Milestones	Date	Lead
None		

Comments:

3 ~~Although individual sections will be delivered to NRC starting in May 2002, significant effort has been expended in acquiring data to resolve comments and update the report. Some scenarios had to be re-analyzed and others added, hence, the work on steel, aluminum and copper scenarios has been more complex than expected. Additional time is needed to resolve comments and provide a document with realistic estimates.~~

7. Although individual sections will be delivered to NRC starting in May 2002, significant effort has been expended in acquiring data to resolve comments and update the report. Some scenarios had to be re-analyzed and others added, hence, the work on steel, aluminum and copper scenarios has been more complex than expected. Additional time is needed to resolve comments and provide a document with realistic estimates.

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

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

Through December 2002		
Milestone	Date	Lead
None		

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

Comments:

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

VII. Topic Area: Materials and Waste Programs

K. Part 71 Rulemaking: Packaging and Transportation of Radioactive Material

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

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

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

Prior to June 2002		
Milestone	Date	Lead
1. Revised Commission paper to the Commission (199800008) (SECY-00-0117)	5/31/00C	N. Tanious, IMNS
2. Proposed rule to Commission (199800008) (SECY-01-0035)	3/02/01C	N. Tanious, IMNS
3. Proposed rule package to SECY for publication (199800008)	3/22/02C	N. Tanious, IMNS
4. Proposed rule published.	04/30/02C	N. Tanious, IMNS

Through December 2002		
Milestone	Date	Lead
None		

Beyond December 2002		
Milestone	Date	Lead
5. Final rule to Commission (199800008)	07/29/03	N. Tanious, IMNS

Comments:

4. ~~The SRM requires the staff to publish the proposed rule concurrently with the Department of Transportation (DOT). DOT's publication date is expected April 30, 2002.~~

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

VII. Topic Area: Materials and Waste Program

L . Part 70 Rulemaking: Domestic Licensing of Special Nuclear Material

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

Project Manager: Yawar Faraz, FCFB/FCSS

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

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

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

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

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

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

Beyond December 2002		
Milestone	Date	Lead
None		

Comments:

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

VII. Topic Area: Materials and Waste Programs

M. Develop Rulemaking for Parts 40, 75, 110, and 150 (Implement IAEA Safeguards Agreement)

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

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

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

Coordination: OIP, OSTP, OGC

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

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

Through December 2002		
Milestone	Date	Lead
None		

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

Comments:

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

VII. Topic Area: Materials and Waste Programs

N. Mixed Oxide (MOX) Fuel Facility Licensing

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

Project Manager: Andrew Persinko, SPIB/FCSS

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

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

Prior to June 2002		
Milestone	Date	Lead
1. Initiate review of construction authorization application received 3/1/01	3/1/01C	A. Persinko, FCSS
2. Issue Notice of Intent for environmental impact scoping meetings	3/07/01C	T. Harris, DWM
3. Complete acceptance review of construction authorization application	3/28/01C	A. Persinko, FCSS
4. Conduct environmental impact scoping meetings	4/17/01C 4/18/01C 5/08/01C	T. Harris, DWM
5. Issue environmental impact statement scoping meeting summary report for MOX fuel fabrication facility	8/09/01C	J. Davis, DWM
6. Issue draft safety evaluation report for MOX fuel fabrication facility	4/30/02C	A. Persinko, FCSS

Through December 2002		
Milestone	Date	Lead
7. Initiate review of supplemental environmental report	7/02	~~J. Davis~~ T. Harris, DWM
8. Initiate review of supplemental construction authorization request supplement	10/02	A. Persinko, FCSS

Beyond December 2002		
Milestone	Date	Lead
9. Issue draft environmental impact statement for MOX fuel fabrication facility for public comment	2/03	~~J. Davis~~ T. Harris, DWM
10. Issue revised draft safety evaluation report for the MOX fuel facility	4/03	A. Persinko, FCSS
11. Issue final safety evaluation report, Record of Decision and licensing decision on MOX fuel fabrication facility construction authorization application	9/03	A. Persinko, FCSS ~~J. Davis~~ T. Harris, DWM

Comments:

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

6-10. 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 in October 2002 and its Environmental Report in July 2002.

VII. Topic Area: Materials and Waste Programs

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

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

Program Manager: ~~Patrick Castleman~~ William Troskoski, Inspection Section, SPIB/FCSS

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

Coordination: NMSS 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; NSIR; 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.

Prior to June 2002		
Milestone	Date	Lead
None		

Through December 2002		
Milestone	Date	Lead
1. Revise Inspection Manual Chapter 2604, Licensee Performance Review (LPR).	06/28/02	~~P. Castleman~~ W. Troskoski, FCSS
2. Issue revised MC 2600, Fuel Cycle Inspection Program.	09/30/02	~~P. Castleman~~ W. Troskoski, FCSS

Beyond December 2002		
Milestone	Date	Lead
None		

Comments:

2. This project will be closed at the end of FY 2002. Beginning in FY 2003, risk-informed revisions to the fuel cycle oversight program's inspection procedures will be made during normal updates of the inspection program, commensurate with the implementation of the Part 70 revisions. The Commission was informed of the staff's change in approach by memorandum dated 03/18/2002. The implementation date for the revised LPR Manual Chapter has been changed to June of 2002 to allow completion of the current round of LPRs under the existing process.

VII. Topic Area: Materials and Waste Programs

P. Material Protection, Control, and Accounting (MPC&A)
1) MPC&A Regulatory Program Support to Russia, Ukraine, and Kazakhstan

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

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

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

Prior to June 2002		
Milestone	Date	Lead
1. Commission paper on the status of the NRC's MPC&A support efforts under the Department of Energy's Interagency Agreement funding (200100036) (SECY-02-0024)	2/1/02C	M. Kelly, NSIR

Through December 2002		
Milestone	Date	Lead
2. Meet with the regulatory agencies of Russia, Ukraine, and Kazakhstan. (SRM on SECY-02-0024)	7/31/02	M. Kelly, NSIR
3. Based on regulatory agency meetings, determine if NRC should continue to provide MPC&A support to any of these countries. Provide results of the determination to the Commission, while addressing issues identified in SECY-02-0024 SRM dated 2/22/02.	8/30/02	M. Kelly, NSIR

Beyond December 2002		
Milestone	Date	Lead
4. Future work to be determined, resulting from milestone 3 above.	TBD	M. Kelly, NSIR

Comments:

In July 2000, the NRC signed an Interagency Agreement with DOE to continue MPC&A support to the regulatory agencies of Russia, Ukraine, and Kazakhstan. With the exception of providing limited direct support to DOE in its MPC&A support program activities to Russia, limited progress to date has occurred with regard to the NRC's providing direct assistance to Russia. Discussions continue with DOE management to pursue funding for Ukraine and Kazakhstan.

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

VII. Topic Area: Materials and Waste Programs

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

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

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

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

Coordination: OGC

Prior to June 2002		
Milestone	Date	Lead
1. Proposed Rule to Commission (200000088) (SECY-01-0066)	4/20/01C	M. Horn, IMNS
2. Publish proposed rule (200000088) (66 FR 29251)	5/30/01C	M. Horn, IMNS

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

Beyond December 2002		
Milestone	Date	Lead
None		

Comments:

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.

Prior to June 2002		
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

Through December 2002		
Milestone	Date	Lead
4. Submit Final rules to Commission	4/26/02C	OGC S. Treby
5. Commission approves/affirms final rules	7/30/02	OGC S. Treby
6. Publish final rules in Federal Register	8/14/02	OGC S. Treby
7. Final Rules effective	9/15/02	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, 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
None		

Beyond December 2002		
Milestone	Date	Lead
1. Pennsylvania Governor to file application for an Agreement	1/02/03	R. Blanton, STP
2. Negative consent paper to Commission (199900121)	9/01/03	R. Blanton, STP
3. Negative consent SRM to publish proposed agreement	10/01/03	
4. Commission paper reconsidering final agreement (199900121)	1/02/04	R. Blanton, STP
5. Commission SRM approving the Agreement	2/02/04	
6. Agreement effective	3/02/04	

Comments:

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

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

Prior to June 2002		
Milestone	Date	Lead
None		

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

Beyond December 2002		
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: Josephine M. Piccone, Office of State and Tribal Programs

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

Prior to June 2002		
Milestone	Date	Lead
None		

Through December 2002		
Milestones	Date	Lead
1. Minnesota Governor to file application for an Agreement	9/30/02	C. Maupin, STP

Beyond December 2002		
Milestone	Date	Lead
2. Negative consent paper to Commission (200100091)	01/21/03	C. Maupin, STP
3. Negative consent SRM to publish proposed agreement	02/03/03	
4. Commission paper reconsidering final agreement (200100091)	05/12/03	C. Maupin, STP
5. Commission SRM approving the Agreement	06/09/03	
6. Agreement effective	07/07/03	

Comments:

The State of Minnesota has revised its schedule for submission of an Agreement per a fax and e-mail from the State dated 3/7/02.

X. Topic Area: NRC Administration and Support Functions

A. Agency-wide Documents Access and Management System (ADAMS)

SES Manager: Lynn B. Scattolini, OCIO/ADAMS

Program Manager: Lynn B. Scattolini, OCIO/ADAMS

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

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

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	Schedule to be established in 11/02	J. Schaeffer, OCIO
4. Implement ADAMS as an electronic recordkeeping system. Begin filing records electronically. Obtain NARA approval of record schedules.	3/02C	L. Scattolini, OCIO

Beyond December 2002		
Milestone	Date	Lead
5. Complete development and deploy ADAMS Version 4.0	10/02	J. Schaeffer, OCIO
6. Improve ADAMS data integrity by completion of cleanup of ADAMS database	10/02	L. Scattolini, OCIO

Comments:

3. Staff has converted all legacy data from the NUDOCS and PDR's legacy system to the ADAMS Legacy Library for the NRC staff and the public. A final checkout of the system is being conducted prior to deployment. Three performance issues have been identified that require resolution. Because two of them require a change in the custom code and need to be installed on users' desktops, they cannot be deployed until the next planned desktop release of ADAMS. In addition, data migration issues have been analyzed, and the significant ones that require action prior to system deployment are being resolved. Plans are to have a group of NUDOCS users from the offices do further testing on the system and provide input into the disposition of other data migration issues. In order to minimize the risks related to the deployment of ADAMS Version 4.0, we will first deploy ADAMS 4.0 (see comment 5), and then establish a schedule in November 2002 for deploying the ADAMS Legacy Library.

5. In preparing for ADAMS 4.0, we completed an interim upgrade of ADAMS underlying COTS product in February 2002. This was the first time we performed such an upgrade in coordination with FileNET, the product vendor. Based on resources expended and time taken, we are working with FileNET to establish a more robust upgrade project team and procedures for moving to ADAMS Release 4.0. We have met with the product vendor and custom code maintenance contractor and established an integrated project plan with an ADAMS Version 4.0 completion date of October 2002.

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, Chief, Specialized Training and Support, Office of Human Resources

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

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

Prior to June 2002		
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	4/02C	Bird/McDermott Reidinger Office Directors
14. Implement employee self-assessment on-line skills survey for staff in Engineering, Scientific, and Technical Occupational Series	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	7/02	Reidinger
16. Evaluate SWP software for applicability as long term solution.	6/03	Reidinger

*Subject to funding

Comments:

13. OD/RA Briefings completed with Region III briefing on 4/19/2002.

16. Revised, to reflect annualized process of SWP software evaluation.

XI. Topic Area: Nuclear Security

A. Reactor Safeguards Initiatives

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

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

Coordination: NRR, NMSS~~Issues IV.E. "Reactor Safeguards Initiatives," and VII.P. "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.~~

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

Beyond December 2002		
Milestone	Date	Lead
6. Final rule CRGR Briefing	TBD	R. Rosano, NSIR
7. Final rule to EDO (199800188)	TBD	R. Rosano, NSIR
8. Final rule to Commission	TBD	R. Rosano, NSIR
9. Initiate SPA pilot program	TBD	R. Albert, NSIR

10. Completion of SPA pilot program	TBD	R. Albert, NSIR
11. Publication of final rule	TBD	R. Rosano, NSIR
12. Lessons Learned from SPA pilot (200100060)	TBD	R. Albert, NSIR

Comments:

NOTE: NSIR staff is currently drafting a road map document that will outline the major activities the office is tracking. Once this document is complete and transmitted to the Commission, topic area XI will be modified to reflect these activities.

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 be 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.

All This item was changed to reflect the new Office of Nuclear Security and Incident Response.