

November 23, 1999

MEMORANDUM TO: Chairman Meserve

FROM: William D. Travers original /s/ by Frank J. Miraglia for  
Executive Director for Operations

SUBJECT: UPDATE TO STAFF RESPONSE TO TASKING MEMORANDUM AND  
STAKEHOLDER CONCERNS

Attached for your information is the staff's November update to the plan of short- and long-term actions to respond to selected 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.

Additions and changes to updates are normally marked in redline and strikeout. The November update, however, is not marked because substantial changes have been made. Specifically, since the October update, the following significant milestones have been completed:

1. Issued safety evaluation on EPRI ISI topical report
2. Conducted informational briefing for CRGR on risk-informing 10 CFR Part 50 requirements (Option 2)
3. Held a public meeting to discuss draft ANPR and draft rulemaking plan for risk-informing Part 50 requirements (Option 2)
4. Conducted a briefing for PRA Steering Committee on rulemaking plan for risk-informing 10 CFR Part 50 requirements (Option 2)
5. Held PRA Steering Committee/Industry counterpart meeting
6. Submitted paper and rulemaking plan to Commission for risk informing 10 CFR Part 50 (SECY 99-256)
7. Forwarded to the Commission the rulemaking package concerning AP600 Design Certification
8. Forwarded to the Commission the final rule, draft guide, and draft SRP involving revised source term (SECY 99-240)
9. Completed rulemaking plan for development of an exercise rule and review of 10 CFR 73.55 and associated security regulations (SECY-99-241)

Further, specific issues have been removed because they have been completed, as follows:

1. Pilot Applications Concerning Risk-Informed and Performance-Based Regulation
2. FSAR Update Guidance
3. Generic Communications
4. Confirmatory Action Letters
5. Applicability of Backfit Rule to Decommissioning Activities
6. Reorganization - Restructuring Line Organizations
7. Achieving 8:1 Supervisor/Manager-to-employee ratios

8. Increased Employee Involvement

Finally, a number of topics and issues have been added to reflect significant policy matters that are currently being evaluated or developed by the staff. In particular, the topics and issues are:

1. Issue I.D.2., "Risk-Informed Technical Requirements in 10 CFR Part 50 (Option 3)"
2. Issue I.E., "Develop Standards for the Application of Risk-informed, Performance-based Regulation in Conjunction with National Standards Committees"
3. Issue I.F., "Reevaluate the Technical Basis for the Pressurized Thermal Shock Rule (10 CFR 50.61)"
4. Issue III.B., "Risk-based Performance Indicator Development"
5. Issue IV.O., "Maintenance Rule Rulemaking (10 CFR 50.65) and Guidance Development"
6. Issue IV.P., "120-Month Update Requirement for Inservice Inspection and Inservice Testing Programs in 10 CFR 50.55a (Codes and Standards)"
7. Issue IV.Q., "Reactor Fire Protection Risk-Informed, Performance-Based Rulemaking"
8. Issue IV.R., "Steam Generator Tube Integrity Industry Initiative"
9. Issue IV.S., "Reactor Safeguards Initiatives"
10. Issue IV.T., "Utilization of MOX Fuel in Nuclear Power Reactors"
11. Issue IV.P., "High Burnup Fuel"
12. Topic Area V, "Materials and Waste Programs"
13. Topic Area VII, "State Programs"

Attachment: As stated

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

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

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and See page 2

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11/ /99	11/ /99	11/ /99

Chairman Meserve

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EDO Staff  
EDO R/F  
DEDR R/F

*November 5, 1999*

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

**as of November 5, 1999**

**TABLE OF CONTENTS**

I. Topic Area: Risk-Informed and Performance-Based Regulation . . . . . 1

    A. Evaluation of Industry Proposals . . . . . 1

    B. Plant-Specific Licensing Reviews . . . . . 3

    C. Guidance Documents . . . . . 5

    D.1. Risk-Informed Scope of Certain Part 50 Requirements (Option 2) . . . . . 7

    D.2. Risk-Informed Technical Requirements in 10 CFR Part 50 (Option 3) . . . . . 9

    E. Develop Standards for the Application of Risk-Informed, Performance-based  
    Regulation in Conjunction with National Standards Committees . . . . . 11

    F. Reevaluate the Technical Basis for the Pressurized Thermal Shock Rule  
    (10 CFR 50.61) . . . . . 13

II. Topic Area: Reactor Inspection and Enforcement . . . . . 15

    A. Risk Informed Baseline Inspection Program . . . . . 15

    B. Enforcement Program Initiatives . . . . . 17

III. Topic Area: Reactor Licensee Performance Assessment . . . . . 18

    A. Performance Assessment Process Improvements (IRAP, Industry’s Proposal,  
    and Performance Indicators) . . . . . 18

    B. Risk-based Performance Indicator Development . . . . . 20

IV. Topic Area: Reactor Licensing and Oversight . . . . . 22

    A. License Renewal (includes Calvert Cliffs, Oconee and Generic Process  
    Improvements) . . . . . 22

    B. 50.59 Rulemaking and Guidance Development . . . . . 24

    C. Define Design Basis . . . . . 26

    D. Improved Standard TS . . . . . 28

    E. Requests for Additional Information . . . . . 29

    F. 2.206 Petitions . . . . . 31

    G. Application of the Backfit Rule . . . . . 32

    H. License Transfers . . . . . 33

    I. AP600 Design Certification Rulemaking . . . . . 34

    J. Decommissioning Regulatory Improvements . . . . . 35

    K. Event Reporting Rulemaking . . . . . 37

    L. Proposed KI Rulemaking . . . . . 39

    M. NEI Petitions - Petition for Modifying 50.54(a) . . . . . 41

    N. Revised Source Term Rulemaking and Guidance Development . . . . . 43

    O. Maintenance Rule Rulemaking (10 CFR 50.65) and Guidance Development . 45

    P. 120-Month Update Requirement for Inservice Inspection and Inservice Testing  
    Programs in 10 CFR 50.55a (Codes and Standards) . . . . . 47

    Q. Reactor Fire Protection Risk-Informed Performance Based Rulemaking . . . . . 49

    R. Steam Generator Tube Integrity Industry Initiative . . . . . 51

    S. Reactor Safeguards Initiatives . . . . . 52

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T.	Utilization of MOX Fuel in Nuclear Power Plants .....	54
U.	High Burnup Fuel .....	56
V.	Topic Area: Materials and Waste Programs .....	58
A.	Dual Purpose Spent Fuel Cask Reviews	
1.	Transnuclear TN-68 Cask Review .....	58
2.	BNFL Fuel Solutions (BFS) TranStor Cask Review .....	59
3.	BNFL Fuel Solutions WESFLEX Cask Review .....	61
4.	NAC-STC/MPC Cask Review .....	63
5.	NAC-UMS Cask Review .....	64
B.	ISFSI Licensing - Private Fuel Storage .....	65
C.	Generic Spent Fuel Transportation Studies .....	67
1.	Update of NUREG 0170 .....	67
2.	Update of NUREG/CR-4829 .....	67
3.	Burnup Credit for Transportation .....	69
4.	Characterization of Fuel Stored in Dry Cask .....	71
D.	Uranium Recovery Concerns (NMA White Paper Issues) .....	73
E.	Part 40 Rulemaking: Licensing of Source Material .....	75
F.	Part 41 Rulemaking .....	77
G.	Reactor Decommissioning Guidance .....	78
H.	Atlas Bankruptcy and Site Reclamation .....	80
I.	West Valley Decommissioning Criteria .....	81
J.	Decommissioning Management Plan Site Status .....	82
K.	Part 61, Mixed Waste Rulemaking .....	83
L.	Prepare for Licensing a HLW Repository .....	84
1.	Part 63 Rulemaking .....	84
2.	Staff Review of DOE DEIS for Yucca Mountain .....	85
3.	NRC Comment on DOE HLW Site Recommendation .....	86
M.	Part 35 Rulemaking: Medical Use Regulation .....	87
N.	General Licenses Regulation (Part 30) .....	89
O.	Release of Solid Materials .....	90
P.	Spent Fuel Shipment Information Protection Requirements (Part 73) Rulemaking .....	91
Q.	Part 71 Rulemaking .....	92
R.	Part 72 Rulemaking .....	94
1.	Greater-Than-Class-C (GTCC) Waste .....	94
2.	Clarification and Addition of Flexibility .....	95



S.	Part 70 Rulemaking .....	96
T.	Develop Rulemaking for Parts 40, 75, 110, and 150 (Implement IAEA Safeguards Agreement) .....	98
U.	MOX Licensing .....	99
V.	Lessons Learned Concerning the Nuclear Criticality Accident at Tokaimura .	100
W.	Risk-Informed Baseline Fuel Cycle Safety Inspection Program .....	101
X.	Threat Assessment Activities (Coordinate with Reactor Safeguards Initiatives, IV.S.) .....	103
VI.	Topic Area: Changes to NRC's Hearing Process .....	104
A.	Use of Informal Adjudicatory Procedures .....	104
VII.	Topic Area: State Programs .....	105
A.	Agreement with the State of Pennsylvania .....	105
B.	Agreement with the State of Oklahoma .....	106

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

**A. Evaluation of Industry Proposals**

SES Managers: Gary Holahan, Director, DSSA/NRR, and Thomas King, Director, DST/RES

Objective: The objectives are enhancing safety decisions, efficiently utilizing NRC resources, reducing unnecessary conservatism, as well as soliciting industry insights.

Coordination: Tasks associated with milestones 1, 5, and 6 require close coordination and integration by NRR and RES staffs. Responsible project managers are coordinating these activities with other ongoing activities and ensuring that the overall objectives for each project are achieved.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Conduct discussions with ACRS on risk-informed, performance-based Regulation initiatives	Ongoing	R. Barrett, DSSA (NRR)/ M. Cunningham, RES
2. Conduct meetings between Industry PRA Steering Committee and NRC Steering Committee	Ongoing	T. King, RES
3. Conduct meetings between Industry RI Licensing Panel and NRC RI Licensing Panel	Ongoing	G. Holahan, DSSA
4. Issue safety evaluation on EPRI ISI topical report	10/28/99C	S. Ali, DE (NRR)

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
5. Proposed Final Safety Goal Policy (199700262)	3/00	J. Murphy, RES

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<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
6. Endorse ASME RI-ISI code cases via Regulatory Guide 1.147, contingent upon ASME completing code case by 6/00	3/01	D. Jackson, RES/ S. Ali, DE (NRR)

Comments: None

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

**B. Plant-Specific Licensing Reviews**

SES Manager: Gary Holahan, Director, DSSA, NRR

Objective: The use of probabilistic risk assessment in risk-informed decision making for changes to plant-specific licensing basis is intended to enhance safety decisions, efficiently utilize NRC resources and reduce unnecessary conservatism. The goal is to complete first of a kind risk-informed licensing reviews such that lessons learned may be utilized for future staff reviews.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Risk-Informed Licensing Panel (RILP) Meetings - assists in focusing management attention, as necessary, on risk-informed licensing actions.	Ongoing	G. Holahan, DSSA
2. Issue reliefs from augmented examination requirements for various licensees on BWR reactor pressure vessel circumferential welds.	(See comments) Ongoing	G. Carpenter, DE
3. SER to be issued on CE Owners Group Joint Applications Report for CSS system AOT extensions for 8 sites.	(See comments) 11/10/99	R. Goel, SPLB/ M. Wohl, SPSB
4. SER to be issued on CE Owners Group Joint Applications Report for HPSI system AOT extensions for 8 sites.	(See comments) 1/15/00	W. Lyon, SRXB

<b>Through June 30, 2000</b>		
Milestones	Date	Lead
None		

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
None		

Comments:

2. The staff issued Generic Letter 98-05, dated November 11, 1998, which informed BWR licensees that the staff had completed its review of the "BWR Vessel and Internals Project, BWR Reactor Pressure Vessel Shell Weld Inspection Recommendations (BWRVIP-05)," and that BWR licensees may request relief from the inservice inspection requirements of 10 CFR 50.55a(g) for the volumetric examination of circumferential reactor pressure vessel (RPV) welds. These reliefs will only be effective for the remaining term of operation under the current license. The staff is continuing to expeditiously review these requests as they are received. The staff granted two reliefs associated with Spring of 1999 outages and is in the process of reviewing two requests which it expects to complete for Fall 1999 outages.

As stated in Generic Letter 98-05, "Boiling Water Reactor Licensees Use of the BWRVIP-05 Report to Request Relief From Augmented Examination Requirements on Reactor Pressure Vessel Circumferential Shell Welds," dated November 10, 1998," ... licensees of BWRs may request permanent (i.e., for the remaining term of operation under the existing, initial, license) relief from the inservice inspection requirements of 10 CFR 50.55a(g) for the volumetric examination of circumferential reactor pressure vessel (RPV) welds." To date, the staff has issued about twelve reliefs, and may issue approximately two dozen more, if the remaining licensees request this relief. The conclusion date reflects this expected additional work load.

3. The review finalization date for the CEOG Joint Applications Report on modifications of the CSS Technical Specifications has been changed from 10/10/99 to 11/10/99 because of concerns with the sample TS submitted with the report and parallel industry efforts impacting a small portion of the review.
4. The staff's review identified unanticipated, complex issues that lead to a significant, unplanned effort, and the vendor and owners groups have requested changes in the material to be reviewed. All parties agree that the most effective and efficient course of action is to extend the due date for completion of the review as opposed to withdrawing and resubmitting the amendment request.

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

**C. Guidance Documents**

SES Manager: Gary Holahan, Director, DSSA, NRR and Thomas King, Director, DST/RES

Objective: To provide guidance for the staff and the industry which will enhance consistency and provide an infrastructure for use in risk-informed regulation.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Issue GQA inspection procedure for use at the discretion of the Regions to verify the implementation of GQA on an as-needed basis.	TBD (see comments)	D. Dorman, DIPM
2. Expect to receive comments on Phase 1 PRA standard and develop final draft.	12/99 (see comments)	M. Drouin, RES
3. Issue final draft of Phase 1 PRA standard (prepared by ASME)	TBD (see comments)	M. Drouin, RES
4. Prepare first draft of Phase 2 PRA standard.	TBD (See comments)	M. Drouin, RES
5. Complete of Phase 2 PRA standard.	TBD (see comments)	M. Drouin, RES

<b>Through June 30, 2000</b>		
Milestones	Date	Lead
None		

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
None		

Comments:

1. The staff met with the CRGR on June 22, 1999, and August 4, 1999, to discuss changes that had been made to the inspection procedure. This milestone is being reevaluated based on the current development of the revised oversight process. The need for a graded quality assurance inspection procedure is being

evaluated given the development of supplemental procedures for diagnostic evaluation in the revised oversight process.

- 2 & 3. Phase 1 is a standard for full power operation (internal events only) which is an ASME initiative and, therefore, the schedules are set by ASME. Phase 2 is for external events and shutdown. The schedule for completion of Phase 1 has been revised based on the large number of public comments received and must be addressed. The scope of the standard is being revisited by ASME which may well have a significant impact on the schedule. The staff is concerned that this change in scope and schedule will not meet NRC needs associated with risk informed modifications to Part 50. The staff is considering what alternative options are available.
- 4 & 5. Phase 2 of the PRA standard covers internal fire, external events and low power shutdown (LPSD). ANS will be developing a standard for LPSD conditions and external events (i.e., seismic). ANS has initiated work and is currently developing a plan with anticipation of issuing a schedule for completion of LPSD and seismic by 11/99.

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

**D.1. Risk-Informed Scope of Certain Part 50 Requirements (Option 2)**

SES Manager: Cynthia Carpenter, Branch Chief, RGE/DRIP/NRR

Objective: To modify the scope of certain Part 50 regulations to be risk-informed, consistent with Option 2 of SECY-98-300 and its associated SRM dated June 8, 1999.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Informational briefing for CRGR on rulemaking plan	10/12/99C	T. Bergman, DRIP
2. Public meeting to discuss draft ANPR and draft rulemaking plan	10/13/99C	T. Bergman, DRIP
3. PRA Steering Committee briefing on rulemaking plan	10/13/99C	T. Bergman, DRIP
4. PRA Steering Committee/Industry counterpart meeting	10/19/99C	T. Bergman, DRIP
5. Submit paper and rulemaking plan to Commission - Option 2 (199900061) (SECY 99-256)	10/29/99C	T. Bergman, DRIP
6. Publish ANPR for public comment	12/7/99	T. Bergman, DRIP
7. Meet with internal and external stakeholders	Ongoing	T. Bergman, DRIP
8. Categorization pilot plants identified	1/27/00	T. Bergman, DRIP

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
9. Public workshop on ANPR comments	4/00	T. Bergman, DRIP
10. Complete review of public comments on ANPR	5/23/00	T. Bergman, DRIP



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<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
11. Public workshop on draft proposed rulemaking	7/00	T. Bergman, DRIP
12. Submit proposed rulemaking to Commission (199900061)	9/00	T. Bergman, DRIP
13. Categorization pilot program complete (issue exemptions)	7/01	T. Bergman, DRIP
14. Submit final rulemaking to Commission (199900061)	10/01	T. Bergman, DRIP
15. Publish final rulemaking	3/02	T. Bergman, DRIP

Comments:

NEI has committed to submit their draft guideline by the end of the year.

5. Reflects actual date submitted to Commission.
6. Milestone 6 and subsequent milestones (other than meetings) reflect schedule provided in rulemaking plan to Commission on 10/29/1999.
7. Staff conducts periodic meetings with external (approximately one per month) and internal (more frequently) stakeholders.
8. Identification of pilot plants is contingent upon NEI and licensee commitment to participate.
9. A public workshop is planned following end of public comment period to discuss comments received.
12. A public workshop is planned to solicit stakeholder input on draft proposed rulemaking.

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

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

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Propose staff plan for risk-informing technical requirements in 10CFR Part 50 - Option 3 (SECY 99-264) (199900062)	11/8/99 C	M. Cunningham PRAB/DRAA
2. Develop Web site	11/99	M. Cunningham, PRAB/DRAA
3. Complete trial analyses on potential revisions to 50.44 and special treatment requirements	1/00	M. Drouin, PRAB/DRAA

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
4. Hold public workshop on trial application results	2/00	M. Drouin, PRAB/DRAA
5. Provide status report to Commission	3/00	M. Drouin, PRAB/DRAA

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
6. Identify preliminary set of proposed changes and recommendations	8/00	M. Drouin PRAB/DRAA
7. Hold public workshop on preliminary set of proposed changes and recommendations	9/00	M. Drouin, PRAB/DRAA
8. Final report to Commission	12/00	M. Drouin, PRAB/DRAA

Comments: None

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

**E. Develop Standards for the Application of Risk-informed, Performance-based Regulation in Conjunction with National Standards Committees**

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

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

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Phase 1 PRA standard comments received and final draft developed	12/99	M. Drouin, RES
2. Draft fire PRA standard issued by NFPA	1/00	N. Siu, RES

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
3. Final Phase 1 PRA standard issued by ASME	3/00	M. Drouin, RES
4. Phase 2 PRA standard comments received and final draft developed	TBD	M. Drouin, RES
5. Final Phase 2 PRA standard issued by ASME	TBD	M. Drouin, RES

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
6. Final fire PRA standard issued by NFPA	3/01	N. Siu, RES

Comments:

1. Phase 1 is a PRA standard for full power operation (Internal events only) which is an ASME initiative and, therefore, the schedules are set by ASME. The schedule for completion of Phase 1 has been revised based on the large number of public comments received and must be addressed. ASME anticipates re-issuance of Phase 1 standard by 12/99 for consensus review. The staff is concerned that ASME may not meet this schedule and may not adequately address the staffs comments in the updated standard.

2. NFPA is the National Fire Protection Association. The title of the standard is "Performance-Based Standard for Fire Protection for Light Water Reactor Electrical Generating Plants."
4. Phase 2 of the PRA standard covers internal fire, external events and low power shutdown (LPSD). ANS will be developing a standard for LPSD conditions and external events (i.e., seismic). ANS has initiated work and is currently developing a plan with anticipation of issuing a schedule for completion of LPSD and seismic by 10/99.

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

**F. Reevaluate the Technical Basis for the Pressurized Thermal Shock Rule (10 CFR 50.61)**

SES Managers: Michael Mayfield, Branch Chief, MEB/DET/RES, Mark Cunningham, Branch Chief, PRAB/DRAA/RES, and Farouk Eltawila, Branch Chief, SMSAB/DSARE/RES

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

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Conduct public meetings and workshops to identify and resolve open questions on analysis procedures and inputs in PFM, TH and PRA areas	Ongoing since 4/20/99	S. Malik, D. Bessette, R. Woods R., RES
2. Present to ACRS an introductory plan on PTS re-evaluation project	7/14/99C	M. Mayfield, F. Eltawila, M. Cunningham M., RES
3. Conduct public workshops to identify and resolve open questions on analysis procedures and inputs in PFM, TH and PRA areas	Ongoing	S. Malik, D. Bessette, R. Woods R., RES
4. Conduct public workshops to identify and resolve open questions on analysis procedures and inputs in PFM, TH and PRA areas	Ongoing	S. Malik, D. Bessette, R. Woods R., RES

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
5. Present to ACRS on the methodology to perform PTS risk analysis	3/00	S. Malik, D. Bessette, R. Woods, N. Siu, RES

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
6. Present to ACRS the revised PTS risk acceptance criterion	TBD	N. Siu, R. Woods, M. Cunningham, PRAB/RES
7. Present to the Commission the revised PTS risk acceptance criterion	TBD	N. Siu, R. Woods, M. Cunningham, PRAB/RES
8. Present to ACRS the PTS risk analysis of the selected PWR plants	TBD	S. Malik, D. Bessette, R. Woods, RES
9. Develop Integrated PTS risk estimate for a generic PWR plant	TBD	N. Siu, R. Woods, S. Malik, D. Bessette, RES
10. Present to ACRS the technical basis for proposed changes in 10 CFR 50.61 PTS screening criterion	TBD	S. Malik, D. Bessette, R. Woods, N. Siu, RES

Comments: None

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

**A. Risk Informed Baseline Inspection Program**

SES Manager: William M. Dean, PIPB/DIPM/NRR and R. W. Borchardt, Director, OE  
 Program Manager: Alan L. Madison, NRR and Jose Ibarra, RES

Objective: To develop and implement a more risk informed, efficient, and effective baseline inspection program. By risk informed, it is meant that the inspection program's scope will be defined primarily by those areas that are significant from a risk perspective and that the inspection methods used to assess these areas will take advantage of both generic and plant specific risk insights.

Coordination: Issues II.A. "Risk Informed Baseline Inspection Program," II.B. "Enforcement Program Initiatives," III.A. "Performance Assessment Process Improvements", III. B. "Risk-Based Performance Indicator Development," and IV.K "Event Reporting Rulemaking," require close coordination and the integration of specific tasks by the NRC staff. Responsible project managers are coordinating these activities by assessing the impact of proposed program changes with the other ongoing activities and ensuring that the overall objectives for each project are achieved. Examples include, intra-project task force participation, workshop attendance, concurrent review of projects and periodic senior management briefings. In addition, industry-developed initiatives such as the NEI New Regulatory Oversight Process are being reviewed by all project groups and evaluated for impact.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Begin drafting program changes and start conducting training of staff	2/99C	A. Madison, DIPM
2.a. Begin pilot implementation of new baseline inspection program	5/30/99C	W. Dean, DIPM
2.b. Monitor pilot implementation of new baseline inspection program and review results	12/99	A. Madison, DIPM
3. Complete pilot implementation of new baseline inspection program	12/99	A. Madison, DIPM



<b>Through June 30, 2000</b>		
Milestone	Date	Lead
4. Complete transition to risk informed baseline inspection program	4/00	W. Dean, DIPM

Comments:

2.b&4. The staff is implementing the pilot baseline inspection program through December 1999. The SRM for SECY 99-007 and SECY 99-007A directed the staff to extend implementation of the new oversight program to April 1, 2000, to allow additional time for staff to review results of the pilot program, develop lessons learned from the pilots, and solicit feedback on process changes.

Deferrals and Suspensions:

The SALP process suspension will be continued indefinitely.

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

**B. Enforcement Program Initiatives**

SES Manager: R. W. Borchardt, Director, Office of Enforcement

Objective: Develop and implement improvements to the Enforcement program to increase efficiency and effectiveness, to reduce unnecessary regulatory burdens, and to be coordinated with the reactor oversight process.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Publish revised enforcement policy that addresses elimination of "regulatory significance" (199800069)	11/99	R. Pedersen
2. Assemble the collective views of the staff and stakeholders to determine whether the Revised Enforcement Policy has accomplished the objectives, or whether further staff action is needed (199800159)	11/99	B. Westreich
3. Revise EGM 99-006 to address reporting of historical PI data for all reactors	12/17/99	B. Westreich

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
4. Develop Enforcement Policy for the new reactor oversight process	3/00	B. Westreich
5. Publish Revised Enforcement Policy incorporating Reactor Oversight changes	4/00	R. Pedersen
6. Develop 10 CFR 50.59 Enforcement Guidance (related to IV.B.)	5/00	T. Reis
7. Revise Enforcement Manual to incorporate Reactor Oversight Program changes	6/1/00	R. Pedersen

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
None		

**III. Topic Area: Reactor Licensee Performance Assessment**

**A. Performance Assessment Process Improvements (IRAP, Industry’s Proposal, and Performance Indicators)**

SES Manager: William M. Dean, PIPB/DIPM/NRR

Program Manager: Alan L. Madison, PIPB/DIPM/NRR

Objective: The objective of this task is to develop and implement improvements to the NRC plant performance assessment process (and the overall reactor oversight process) to make it more risk-informed, efficient, and effective while combining the best attributes of the IRAP effort, the regulatory oversight approach proposed by NEI, and the staff efforts designed to develop risk-informed performance indicators.

Coordination: Issues II.A. “Risk Informed Baseline Inspection Program,” II.B. “Enforcement Program Initiatives,” III.A. “Performance Assessment Process Improvements,” III.B. “Risk-based Performance Indicator Development,” and IV.K. “Event Reporting Rulemaking,” require close coordination and the integration of specific tasks by the NRC staff. Responsible project managers are coordinating these activities by assessing the impact of proposed program changes with the other ongoing activities and ensuring that the overall objectives for each project are achieved. Examples include, intra-project task force participation, workshop attendance, concurrent review of projects and periodic senior management briefings. In addition, industry-developed initiatives such as the NEI New Regulatory Oversight Process are being reviewed by all project groups and evaluated for impact.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Obtain Commission approval for pilot program implementation of recommended changes	6/99 C	W. Dean, DIPM
2. Complete development of implementation plan. Start phase-in (pilot) of the revised reactor oversight process.	6/99 C	A. Madison, DIPM
3. Continue pilot implementation of new reactor oversight process	7/99-12/99	A. Madison, DIPM

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<b>Through June 30, 2000</b>		
Milestone	Date	Lead
4. Complete NRC and licensee training on new reactor oversight process in preparation for full implementation	11/99 - 3/00	A. Madison, DIPM
5. Commence full implementation of new reactor oversight process	4/00	W. Dean, DIPM

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
6. Complete evaluation of implementation and effectiveness of the revised assessment process	6/01	M. Johnson, DIPM

Comments:

2. As part of its efforts to communicate with external stakeholders regarding the revised reactor oversight process, the NRC conducted public meetings in the vicinity of all 8 pilot sites.

Deferrals and Suspensions: The SALP process suspension will be continued indefinitely.

**III. Topic Area: Reactor Licensee Performance Assessment**

**B. Risk-based Performance Indicator Development**

SES Manager: Patrick Baranowsky, Branch Chief, OERAB/DRAA/RES

Program Manager: Thomas Wolf, RES

Objective: The objective of this task is to develop risk-based performance indicators which will be considered for use as part of the risk-informed plant performance assessment process. Risk-based performance indicators will help the agency make regulatory decisions to maintain plant safety while not imposing unnecessary regulatory burden.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Begin trial application of risk-based performance indicators	11/99	T. Wolf, DRAA/RES
2. Publish last performance indicator report using current PIs	1/00	T. Wolf, DRAA/RES

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
3. Complete trial application, brief Commission, and publish candidate risk-based indicators for public comment (9800160)(RES)	2/00	T. Wolf, DRAA/RES
4. Hold public workshop on candidate risk-based performance indicators	2/00	T. Wolf, DRAA/RES

Beyond June 30, 2000		
Milestone	Date	Lead
5. Brief commission on proposed risk-based performance indicators developed cooperatively by NRC and industry (9800161) (RES)	10/00	T. Wolf, DRAA/RES
6. Implement Commission approved risk-based performance indicators developed cooperatively by NRC and industry	1/01	T. Wolf, DRAA/RES M. Johnson, DIPM

Comments:

- 1&3. During the initial definition phase, it was determined that (a) additional expertise was needed and a separate support contract is being placed, and (b) the effort required to complete the identification of the indicators and associated thresholds was more complicated and will take longer than originally scheduled. The result is a delay in the dates for these two milestones but the delay is compensated for by incorporating the workshop into the trial application and comment period rather than holding the workshop after the comment period was closed.

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

**A. License Renewal (includes Calvert Cliffs, Oconee and Generic Process Improvements)**

SES Manager: Chris Grimes, Director, RLSB/DRIP/NRR

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

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Maintain Calvert Cliffs and Oconee schedules	Ongoing	C. Grimes, DRIP
2. Conduct management meetings with license renewal applicants	Monthly	C. Grimes, DRIP
3. Steering Committee periodic meeting with NEI Working Group	9/29/99C 12/9/99	C. Grimes, DRIP
4. ACRS subcommittee meetings on renewal process	Ongoing	C. Grimes, DRIP
5. Increased emphasis on renewal with EC and LRSC	Ongoing	C. Grimes, DRIP
6. Issue Supplemental SER and Final Environmental Impact Statement - Calvert Cliffs	11/16/99 See comments	C. Grimes, DRIP C. Carpenter, DRIP
7. ACRS subcommittee meeting on Calvert Cliffs Supplemental SER	11/18/99	C. Grimes, DRIP
8. ACRS full committee meeting on Calvert Cliffs Supplemental SER	12/4/99	C. Grimes, DRIP

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
9. Issue Supplemental SER and Final Environmental Impact Statement - Oconee	2/12/00	C. Grimes, DRIP C. Carpenter, DRIP
10. ACRS subcommittee meeting on Oconee Supplemental SER	3/00	C. Grimes, DRIP

Through June 30, 2000		
Milestone	Date	Lead
11. License renewal decision complete for Calvert Cliffs	4/00 See Comments	C. Grimes, DRIP
12. ACRS full committee meeting on Oconee Supplemental SER	5/00	C. Grimes, DRIP

Beyond June 30, 2000		
Milestone	Date	Lead
13. License renewal decision complete for Oconee	8/00	C. Grimes, DRIP
14. License renewal decision completed within 30-36 months of initial applications	Ongoing	C. Grimes, DRIP
15. Hearing (if request granted)	Per Comm. Sched.	

Comments:

- 3&4. Steering Committee meetings with industry and ACRS subcommittee meetings with staff will continue periodically to ensure effective resolution of technical and process issues. The Steering Committee will periodically report progress to the Executive Council in accordance with the 3/6/98 memo to Chairman Jackson.
- 6. The staff issued the final supplemental environmental impact statement to the Environmental Protection Agency on October 5, 1999. Unless concerns are raised by a Federal agency by November 15, 1999, the environmental review is considered complete.
- 11. The date was revised earlier a month to reflect improvement in schedule. The Commission's denial of the request for hearing on the Calvert Cliffs application was appealed to the Court of Appeals for the D.C. Circuit and oral arguments were heard on Oct. 6, 1999. A decision could be made as early as Nov. 1999. An adverse decision could impact the schedule.
- 14. Projected receipt of license renewal applications:  
 FY00 ANO-1 (Dec. 99) and Hatch 1&2 (Mar. 00)  
 FY01 Turkey Point 3&4 (Dec. 00), Catawba 1&2 and McGuire 1&2 (June 01 - earliest submittal date based on granted), and 1 TBD.  
 FY02 Peach Bottom 2&3 (Dec. 01), Surry 1&2 and North Anna 1&2 (Mar 02), and 1 TBD.



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

**B. 50.59 Rulemaking and Guidance Development**

SES Manager: Cynthia Carpenter, Branch Chief, RGE/DRIP/NRR

Objective: To provide clarity and flexibility in existing requirements.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Publish final rule change 10 CFR 50.59 (199700191)	10/04/99C	E. McKenna, DRIP
2. NEI provides draft revision of NEI 96-07 for staff review and comment	9/17/99C	E. McKenna, DRIP
3. NEI submits revised NEI 96-07 for NRC endorsement	12/99	E. McKenna, DRIP
4. ACRS Briefing on NEI guidance and draft RG	12/99	E. McKenna, DRIP
5. Draft Regulatory Guide issued for public comment	1/00	E. McKenna, DRIP

<b>Prior to June 30, 2000</b>		
Milestone	Date	Lead
6. ACRS and CRGR review of final guidance and RG	5/00	E. McKenna, DRIP
7. Final Regulatory Guide sent to Commission for approval (199700191)	5/30/00	E. McKenna, DRIP
8. Issue final inspection guidance	5/00	E. McKenna, DRIP

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<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
9. Conduct training for NRC staff on rule and inspection guidance	5/00 Through 10/00	E. McKenna, DRIP
10. Publish FR notice with approval of regulatory guidance to establish effective date of rule	(see comments)	E. McKenna, DRIP
11. Revisions to 10 CFR 50.59 become effective	90 days after milestone 11	E. McKenna, DRIP

Comments:

9. Training will be conducted as close to finalization of guidance as possible, to be completed prior to the effective date of the rule.
10. Publication date will depend upon Commission action on the final regulatory guide due to the Commission on May 30, 2000.

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

**C. Define Design Basis**

SES Manager: Cynthia Carpenter, Branch Chief, RGEB/DRIP/NRR

Objective: To provide a clear definition of what constitutes design bases information.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Resolve final staff comments and develop draft regulatory guide	9/99 C	S. Magruder, DRIP
2. NEI resubmits revised guidance for review and endorsement	10/28/99 C	S. Magruder, DRIP
3. ACRS review of SECY and draft regulatory guide	11/99	S. Magruder, DRIP
4. Submit paper with draft regulatory guide to Commission (199800044) (NRR)	11/99	S. Magruder, DRIP
5. SRM to direct staff to publish draft regulatory guide for public comment (60 days)	12/99	S. Magruder, DRIP

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
6. Resolve issues identified during public comment period	4/00	S. Magruder, DRIP
7. ACRS and CRGR review of paper and final regulatory guide	5/00	S. Magruder, DRIP
8. Submit paper and final regulatory guide (199800044) (NRR)	6/00	S. Magruder, DRIP

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
None		

Comments:

- 2-8. The staff's current intention is to endorse an industry guidance document developed by the Nuclear Energy Institute (NEI) with the draft regulatory guide. The staff has met several times with the industry over the last several months and has resolved many significant issues related to the guidance document. At NEI's request, the staff met with the industry on October 14, 1999, to resolve three of the four remaining open issues. At that meeting, NEI committed to submit a revised version of the guidance document for staff endorsement by October 21, 1999. The staff and NEI held additional discussions on the one remaining issue and NEI resubmitted their guidance on October 28, 1999. To allow sufficient time for staff review of the revisions to the guidance document and to make changes to the draft regulatory guide, the staff requested, and was granted, an extension of the due date for WITS 199800044 to November 23, 1999. Subsequent milestone dates have been changed to reflect this one month delay. In addition, the CRGR has accepted the staff's request to defer formal CRGR review until the final regulatory guide is ready to be published.

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

**D. Improved Standard TS**

SES Manager: William Beckner, RTSB/DRIP/NRR

Lead: RTSB Lead PM for each facility conversion

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. The goal for each milestone listed below is to complete the conversions currently under review such that the above objectives are met for the affected facilities.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
3. Issue iSTS Amendment for Fermi 2	9/30/99C	J. Foster, DRIP
4. Issue iSTS Amendment for Palisades	11/99	C. Harbuck, DRIP
5. Issue iSTS Amendments for Farley 1&2	11/99	C. Schulten, DRIP

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
4. Issue iSTS Amendment for NMP-2	2/00	R. Tjader, DRIP
5. Issue iSTS Amendment for IP-3	5/00	M. Weston, DRIP

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
6. Issue iSTS Amendment for FitzPatrick	9/00	T. Le, DRIP

Comments: None

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

**E. Requests for Additional Information**

SES Manager: Suzanne Black, Deputy Director, DLPM, NRR

Objective: To refine/define RAI process and ensure that staff RAI's are adding value to the regulatory process.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Discuss issue of ensuring appropriateness of RAI's with management and staff (including content, quality and continued oversight). Conduct training on revised Office Letter 803 when issued.	8/20/98C 1/5/99C 1/6/99C 1/14/99C Ongoing	Suzanne Black, DLPM
2. NRR licensing action steering group formed to work with industry steering group on improvements to the license amendment process - conducting periodic meetings.	10/98C 11/23/98C 12/10/98C 1/13/99C 3/18/99C 4/14/99C 7/27/99C 9/29/99C Ongoing	Suzanne Black, DLPM
3. Obtain feedback from industry licensing action task force on RAIs	7/99C and 9/99C	S. Black, DLPM
4. Train staff on management expectations regarding RAIs	Periodic	S. Black, DLPM
5. Revise Office Letter 803 to incorporate staff and industry feedback including metrics for RAIs.	12/99	S. Black, DLPM

<b>Through June 30, 2000</b>		
Milestones	Date	Lead
None		

*November 5, 1999*

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<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
None		

Comments: None

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

**F. 2.206 Petitions**

SES Manager: Brian Sheron, Associate Director for Project Licensing and Technical Analysis, NRR

Objective: The objectives of the 2.206 Petition review process include ensuring the public health and safety through the prompt and thorough evaluation of any potential safety problem addressed by a petition filed under 10 CFR 2.206 and to ensure effective, timely communication with the petitioner (Management Directive 8.11). The objective of the actions listed below is to identify and implement measures to improve the timeliness of staff response to petitions.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. FR Publication of the July 1, 1999 Revision of Management Directive 8.11	10/7/99C	S. Black/H.Berkow/ Rich Correia
2. Public Meeting with 2.206 Stakeholder's Task Group	1/15/00	S. Black/H.Berkow/ Rich Correia
3. FR Comment Period Ends	01/31/00	S. Black/H.Berkow/ Rich Correia

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
4. Public Meeting to discuss Comments in response to FR Notice	2/00	S. Black/H.Berkow/ Rich Correia
5. Submit commission Paper outlining the proposed significant changes to MD 8.11 (199900113)	6/00	S. Black/H.Berkow/ Rich Correia

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
6. Issue Revision to MD 8.11	8/00	S. Black/H.Berkow/ Rich Correia

Comments: 4-6. Tentative Schedule.



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

**G. Application of the Backfit Rule**

SES Manager: Tad Marsh, Branch Chief, REXB/DRIP/NRR

Objective: Ensure that the staff closely adheres to the backfit rule, 10 CFR 50.109, in evaluating all additional requirements, expansion in scope, or unique interpretations against actual impact on public health and safety.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. CRGR Yearly Meeting with Nuclear Utility Backfitting and Reform Group (NUBARG) on Backfit Issues	TBD	CRGR/NRR J. Lyons
2. CRGR Annual Report - Includes Program Office Feedback and the Committee's Self Assessment on Value Added by CRGR Review (RES) 199700390	11/15/99	CRGR J. Lyons
3. Backfit training at Headquarters and Regions	TBD (see comments)	RES/NRR/HR J. Lyons

<b>Through June 30, 2000</b>		
Milestones	Date	Lead
None		

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
None		

Comments:

1. Dates for meeting are still being negotiated.
2. Report submitted to OEDO on 10/28/99 is undergoing review.
3. Training will occur after CRGR yearly meeting with NUBARG (Milestone 1) to incorporate industry concerns.

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

**H. License Transfers**

SLS: Robert Wood, RGE/DRIP/NRR

SES Manager: Cynthia Carpenter, Branch Chief, RGE/DRIP/NRR

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

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Issue final SRP on foreign ownership	9/28/99C	S. Hom, OGC R. Wood, DRIP
2. Develop SRP on technical qualifications	12/99	J. Bongarra, DIPM
3. Develop integrated SRP on license transfer process reflecting lessons learned and process improvements (199800195)	12/99	R. Wood, DRIP S. Hom, OGC

<b>Through June 30, 2000</b>		
Milestones	Date	Lead
None		

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
None		

Comments:

- SRP will integrate all license transfer review criteria ( financial qualifications, decommissioning funding assurance, technical qualifications, foreign ownership, and antitrust).

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

**I. AP600 Design Certification Rulemaking**

SES Manager: Chris Grimes, Director, RLSB/DRIP/NRR

Objective: Issue final design approval and design certification rule for AP600 (9200142).

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Initiate concurrence process for rulemaking package	10/99C	J.N. Wilson, DRIP
2. ACRS full committee meeting	11/99	J.N. Wilson, DRIP
3. Issue final rule (NRR) (199200142)	12/99	J.N. Wilson, DRIP

<b>Through June 30, 2000</b>		
Milestones	Date	Lead
None		

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
None		

Comments:

1. This milestone includes submission of the final rulemaking package to ACRS for its review and staff initiation of the concurrence process for the final rule.
2. This milestone was added to show ACRS review of Westinghouse's changes to the AP600 design control document.
3. This milestone includes submission of the final rulemaking package to the EDO by November 9, to the Commission by November 15, and Commission approval by December 13, 1999.

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

**J. Decommissioning Regulatory Improvements**

SES Manager: Stuart Richards, Director, PDIV/DLPM/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. The internal stakeholders include NMSS and RES. The external stakeholders include the public (interested individuals and public interest groups), various federal and state regulatory organizations, and the industry. Responsible staff, supervisors and managers are insuring 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 past Commission meetings with the staff, stakeholder attendance and participation at decommissioning workshops, and various public meetings to obtain stakeholder input into the staff's regulatory development activities.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Conduct a workshop with NEI and public stakeholders regarding the staff's preliminary assessment of the risks from spent fuel pools at decommissioning reactors	7/16/99C	R. Dudley, PDIV-3

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
2. Technical staff to finalize decommissioning spent fuel pool risk criteria that can be used for decommissioning regulatory decision making	3/31/00 See comment	G. Hubbard, SPLB/DSSA
3. 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 (such as fitness-for-duty)	5/31/00	B. Huffman, PDIV-3

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<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
4. Submit a rulemaking plan for consolidating decommissioning regulations into a separate dedicated location with Title 10 of the Code of Federal Regulations (contingent on Commission approval of SECY-99-168	8/31/00	B. Huffman, PDIV-3

Comments: A Commission meeting is scheduled for November 8, 1999, to provide the Commission the current status of the progress being made toward the resolution of various technical and programmatic issues. The agenda for this meeting includes participation by a panel of public and industry representatives.

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

**K. Event Reporting Rulemaking**

SES Manager: Cynthia Carpenter, Branch Chief, RGE/DRIP/NRR

Objective: Revise event reporting requirements to reduce the reporting burden associated with events of little or no risk significance, obtain information better related to risk, and extend reporting time limits consistent with the need for prompt NRC action.

Coordination: Issues II.A, "Risk Informed Baseline Core Inspection Program," II.B, "Enforcement Program Initiatives," II.C, "Escalated Enforcement Program," III.A, "Performance Assessment Process Improvements," III. B. Risk-based Performance Indicator Development", and IV.K., "Event Reporting Rulemaking," require close coordination and the integration of specific tasks by the NRC staff. Responsible project managers are coordinating these activities by assessing the impact of proposed program changes with the other ongoing activities and ensuring that the overall objectives for each project are achieved. Examples include, intra-project task force participation, workshop attendance, concurrent review of projects and periodic senior management briefings. In addition, industry-developed initiatives such as the NEI New Regulatory Oversight Process are being reviewed by all project groups and evaluated for impact.

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
1. Brief CRGR	2/4/00	D. Allison, DRIP
2. Brief ACRS	2/11/00	D. Allison, DRIP
3. Final rule to Commission (199800096) (NRR)	3/10/00	D. Allison, DRIP
4. Publish final rule	6/23/00	D. Allison, DRIP

<b>Through June 30, 2000</b>		
Milestones	Date	Lead
None		

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<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
None		

Comments: None

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

**L. Proposed KI Rulemaking**

SES Managers: Cynthia Carpenter, Branch Chief, RGE/DRIP/NRR (Rulemaking);  
 Frank Congel, Director, IRO (Other Activities)

Objective: To Implement Commission decision regarding the use of KI as a 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 develop aids to assist the states in applying the revised Federal policy.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Brief CRGR and ACRS	12/99	M. Jamgochian, DRIP
2. Forward Final KI Rule Package to EDO (NRR) (199800173)	12/15/99 (see comments)	M. Jamgochian, DRIP
3. Revise KI technical paper (NUREG-1633) to address public comments and provide to Commission (199700193) (IRO)	12/99	A. Mohseni, IRO
4. Develop final KI Federal policy FRN reflecting FRPCC review and send to Commission (199700193) (IRO)	12/99	A. Mohseni, IRO
5. Final brochure on use of KI provided to Commission for review (199700193) (IRO)	1/00	A. Mohseni, IRO
6. Publish Final Rule (199800173) (NRR)	1/31/00 (see comments)	M. Jamgochian, DRIP

<b>Through June 30, 2000</b>		
7. Publish KI Federal Policy FRN	2/00	A. Mohseni, IRO
8. Publish final technical paper (NUREG-1633)	3/00	A. Mohseni, IRO
9. Finalize the public brochure on use of KI and provide to FEMA for publication	4/00	A. Mohseni, IRO



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10. Establish procedures to access Federal stockpiles with FEMA	5/00 (see comments)	A. Mohseni, IRO
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Comments:

- 1,2,&6. The public comment period for the rule ended 9/13/99; the staff requires three months to evaluate comments, revise the rulemaking package, and obtain concurrence before forwarding the final rulemaking package to the EDO. An extremely large number of comments were received on the last days of the comment period. In order to allow the staff to develop a coordinated response, the CRGR and ACRS briefings were deferred until December.
3. The FDA continues to review its 1978 and 1982 position on the use of KI. The FDA's position is important to the content of the NUREG. According to FDA, a draft revised FDA guidance may be issued by late November 1999. The final revised guidance may be out by June 2000. As a result this date may slip further.
- 4&7. As explained in comment 2 above, the Federal policy cannot be revised until the FDA completes its review and announces its revised position. The Commission decision of April 22, 1999, not to fund State Stockpiles requires more negotiations with other federal agencies, particularly FEMA. This schedule will need to be negotiated, current best estimate is 2/00. With regards to regional stockpiling of KI, the NRC staff met with FEMA staff and CDC on August 4, 1999, to begin negotiations to achieve convergence between the agencies on the attributes of a revised Federal KI Policy. A second meeting was conducted on August 26, 1999, to continue negotiations. A third meeting to achieve convergence was held on September 23, 1999. The Deputy EDO was briefed on October 25 and the EDO on November 1, 1999. The impact of various activities on each other were discussed. The staff will prepare a memo to the Commission describing the status of the KI activities. The issue is to ensure that the key Federal agencies agree on the revision of the Federal policy on KI in a timely manner. Key Federal agencies are NRC, FEMA, FDA, CDC, and to some extent EPA.
- 5&9. The development of the public brochure is tied to the completion of the NUREG.
8. The NUREG will be finalized after public comment.
10. Based on the Commission SRM dated April 22, 1999, the staff is directed to work with FEMA to establish and maintain regional KI stockpiles to be used in the event of a severe nuclear power plant accident. This is a new initiative and will have to be negotiated with FEMA. Best estimate is 5/00, subject to future revision. (See 4,7 above).

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

**M. NEI Petitions - Petition for Modifying 50.54(a)**

SES Manager: Jon Johnson, Associate Director for Inspection and Programs , NRR

Objective: Complete the NEI Petition, accepting in part to modify 10 CFR Part 50.54(a), as it pertains to Quality Assurance Program Change Control and is intended to reduce burdens on industry.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Publication of a Federal Register Notice to accept in part the NEI petition for rulemaking and proposing a Direct Final Rule (199800166) (NRR) (SECY 98-279)	02/99C	R. Gramm, DRCH
2. Direct Final Rule effective	04/26/99C	D. Dorman, DIPM
3. Coordinate a workshop with NEI to discuss implementation aspects of Direct Final Rule	6/21/99C	D. Dorman, DIPM
4. Issue Voluntary Option rule for public comment via Federal Register Notice	TBD	D. Dorman, DIPM
5. Hold meetings and workshops with stakeholders to fully develop voluntary option rulemaking (199900004)	1/00	D. Dorman, DIPM

<b>Through June 30, 2000</b>		
Milestones	Date	Lead
None		

<b>Beyond June 30, 2000</b>		
Milestones	Date	Lead
6. Evaluate public comments on Voluntary Option Rule and prepare Final Rule (199900004)	1/01	D. Dorman, DIPM
7. Issue Voluntary Option Rule in Federal Register Notice	TBD	D. Dorman, DIPM
8. Hold a workshop to discuss implementation aspects of Voluntary Option Rule	TBD	D. Dorman, DIPM

Comments:

The Direct Final Rule was published on 2/23/99 and became effective on 4/26/99 based on a determination that no significant adverse comment was received by 3/25/99. Six comment letters were received. NEI and two licensees provided favorable comments on the Direct Final Rule. Other letters (from a licensee and members of the public) requested clarification of certain provisions of the rule. The staff determined that none of the comments constituted significant adverse comments, therefore the Direct Final Rule became effective 4/26/99.

QA plan change control, and 50.54(a), was a topic of a panel discussion during the Regulatory Information Conference.

SECY-98-279 stated that the voluntary option proposed rule will be developed one year after receipt of the SRM, and a final rule the following year.

4-8. Since SECY-98-279 was issued, the Commission has directed the staff through SECY-98-300 to pursue rulemaking to risk inform Part 50 (RIP-50). It is probable that this rulemaking effort will significantly impact implementation of the quality assurance requirements of Appendix B to Part 50. 10 CFR 50.34(b) requires that licensees provide a description of the administrative and managerial controls that are used to demonstrate compliance with Appendix B. 10 CFR 50.54(a) provides the mechanism for determining what changes to a licensee's 50.34(b) description require prior NRC approval. Therefore, the RIP-50 effort potentially impacts on the nature of the information to be controlled under 10 CFR 50.54(a). NRR quality assurance rulemaking resources are currently focusing on the RIP-50 effort. Once the direction of that effort is well established, a proposal for further changes to 50.54(a) will be presented. This may involve a separate rulemaking such as was discussed in SECY-98-279. Alternatively, the appropriate changes to 50.54(a) may be a part of the RIP-50 rulemaking.

The target dates identified for items 5 and 6 are due dates for WITS Item 199900004. NRR is preparing a memorandum to address the changes in the proposed action and related schedule impacts under WITS 199900004.

**IV. Topic Area: Other Agency Programs and Areas of Focus**

**N. Revised Source Term Rulemaking and Guidance Development**

SES Manager(s): Gary Holahan, Director, DSSA/NRR

**Objective:** To revise Part 50 to allow holders of operating power reactor licenses to voluntarily amend the facility design basis to use revised source terms in design basis accident radiological analyses. This action would allow these facilities to pursue risk-informed licensing actions made possible through the use of the revised source term.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Final rule; draft guide; draft SRP to EDO (199700025) (NRR)	9/8/99C	R. Barrett, DSSA
2. Final rule; draft guide; draft SRP to Commission (SECY 99-240)	10/5/99C	R. Barrett, DSSA
3. Publish final rule, announcement of draft guide and draft SRP section	12/15/99	R. Barrett, DSSA

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
4. Public comment period on guide/SRP ends	3/7/00	R. Barrett, DSSA
5. Resolve public comments	4/11/00	R. Barrett, DSSA
6. Prepare final guide, final SRP, FR notice	5/2/00	R. Barrett, DSSA
7. SPSB Review	5/9/00	R. Barrett, DSSA
8. NRR Branches & Divisions / RES /OGC	5/30/00	R. Barrett, DSSA
9. ACRS Review	5/30/00	R. Barrett, DSSA

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10. CRGR Review	6/27/00	R. Barrett, DSSA
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<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
11. Forward to RES for publishing via DSSA memo	7/6/00	R. Barrett, DSSA

Comments:

3. Milestone date is dependent on Commission action on SECY 99-240. Subsequent milestones are dependent on the actual start of the public comment period.
4. Schedule dates for this and following milestones are adjusted to reflect a 75 day public comment period.
8. Full office concurrence is not required for RG. Technical branches and NRR divisions have been added.
11. By RES Office Letter 3A, RES will handle the task of publishing.

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

**O. Maintenance Rule Rulemaking (10 CFR 50.65) and Guidance Development**

SES Manager: Jon Johnson, Associate Director for Inspection and Programs , NRR

Objective: Revise 10 CFR 50.65, "Requirements for monitoring the effectiveness of maintenance at nuclear power plants," and associated guidance to require that power plant licensees, before performing maintenance, assess and manage the increase in risk that may result from the maintenance activities. The revised rule becomes effective 120 days after issuance of the associated regulatory guidance.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Publish proposed rule	9/30/98 C	R. Correia, DIPM
2. Publish final rule	7/19/99 C	R. Correia, DIPM
3. Conduct public meetings with NEI regarding revised Section 11 of NUMARC 93-01	5/28/99 C 6/17/99 C 7/9/99 C 9/13/99 C 10/25/99 C	W. Scott, DIPM
4. ACRS Briefing on draft regulatory guide	7/14/99 C 11/4/99	W. Scott, DIPM
5. CRGR Briefing on draft regulatory guide	8/4/99 C 11/9/99	W. Scott, DIPM
6. Commission Meeting	11/10/99	W. Scott, DIPM
7. Provide Commission with draft regulatory guide (199800032)	11/30/99	W. Scott, DIPM

<b>Through June 30, 2000</b>		
Milestones	Date	Lead
8. ACRS Briefing on final regulatory guide	3/2/00	W. Scott, DIPM
9. CRGR Briefing on final regulatory guide	3/14/00	W. Scott, DIPM
10. Provide Commission with final regulatory guide for review and approval (199800032)	3/28/00	W. Scott, DIPM

<b>Beyond June 30, 2000</b>		
Milestones	Date	Lead
None		

Comments:

3. In accordance with the May 13, 1999, SRM, staff is working in a collaborative fashion with stakeholders to produce a final regulatory guide for Commission approval. Section 11 of NUMARC 93-01, "Industry Guideline for Monitoring the Effectiveness of Maintenance at Nuclear Power Plants," deals with the assessment of risk resulting from performance of maintenance activities.

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

**P. 120-Month Update Requirement for Inservice Inspection and Inservice Testing Programs in 10 CFR 50.55a (Codes and Standards)**

SES Manager(s): Gene Imbro, Branch Chief, DE, NRR

Objective: To determine whether the current regulatory requirement for licensees to update their inservice inspection and inservice testing programs every 120 months to a recent edition and addenda of the ASME Code incorporated by reference in the regulations should be modified in light of public comments received on proposed rule published in April 1999.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Issue proposed rule supplement on 120-month ISI/IST update requirement	4/27/99C	T. Scarbrough, NRR
2. Conduct public workshop on 120-month ISI/IST update requirement	5/27/99C	T. Scarbrough, NRR
3. Public comment period ends on 120-month ISI/IST update requirement	6/28/99C	T. Scarbrough, NRR
4. Brief ACRS on public comments received on 120-month ISI/IST update requirement	12/4/99	T. Scarbrough, NRR
5. Prepare Commission paper providing options and recommendations on ISI/IST update requirement (199900074)	1/10/00	T. Scarbrough, NRR

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
6. Prepare draft final rule package in accordance with Commission direction	2/28/00	T. Scarbrough, NRR
7. Obtain NRC office concurrences on draft final rule package	3/30/00	T. Scarbrough, NRR
8. Brief ACRS on draft final rule package	4/30/00	T. Scarbrough, NRR
9. Brief CRGR on draft final rule package	5/30/00	T. Scarbrough, NRR
10. Obtain EDO approval of final rule (199900074)	6/30/00	T. Scarbrough, NRR



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<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
11. Obtain Commission approval of final rule	7/15/00	T. Scarbrough, NRR
12. Publish final rule	7/30/00	T. Scarbrough, NRR

Comments: None

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

**Q. Reactor Fire Protection Risk-Informed, Performance-Based Rulemaking**

SES Manager: J. Hannon, Branch Chief, SPLB/DSSA/NRR

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

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Submit rulemaking plan to the Commission. (199900032)	12/31/99	E. Connell, SPLB

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
None		

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
2. NRC conducts a public meeting with interested stakeholders	4/30/01	E. Connell, SPLB
3. Brief ACRS fire protection subcommittee on rulemaking efforts	5/31/01	E. Connell, SPLB
4. Brief CRGR on rulemaking efforts	6/31/01	E. Connell, SPLB
5. Publish proposed rule change for public comment	7/30/01	E. Connell, SPLB
6. Resolve public comments	11/31/01	E. Connell, SPLB
7. Brief ACRS & CRGR on final rule	1/31/02	E. Connell, SPLB
8. Submit final rule for Commission approval (199900032)	3/31/02	E. Connell, SPLB

Comments:

It is anticipated that NFPA will issue NFPA 805 for public comment on January 21, 2000; that NFPA will resolve public comments on the proposed industry standard and revise the standard by June 16, 2000; that the proposed NFPA 805 will be approved by the NFPA membership by November 15, 2000; and that NFPA will publish NFPA 805 by March 31, 2001.

2. Completion of this and the subsequent milestones are contingent upon completion of NFPA activities identified in milestones 1 through 5.

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

**R. Steam Generator Tube Integrity Industry Initiative**

SES Manager: William H. Bateman, Branch Chief, DE, NRR

Objective: To revise the existing steam generator regulatory framework (including technical specification requirements) to facilitate implementation of industry initiative NEI 97-06 via endorsement by the NRC. These revisions will provide added assurance that licensees will maintain steam generator tube integrity, while providing added flexibility to licensees to achieve this objective in a cost-effective manner.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
None		

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
1. Issue staff plan to the Commission for implementing industry initiative, NEI 97-06. (199400048)	2/29/00	J. Andersen, DE

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
None		

Comments: Implementation of the industry guidelines contained in NEI 97-06 will include changes to licensee technical specifications. The staff's plan for review and endorsement of NEI 97-06 is under development and will be included in a future (2/29/00T) SECY paper. Additional milestones will be established consistent with the staff's plan and any Commission comments on it.

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

**S. Reactor Safeguards Initiatives**

SES Manager: Jon Johnson, Associate Director for Inspection and Programs , NRR

Objective: Revise physical security requirements to require power reactor licensees to identify target sets of equipment that must be protected to maintain safe operation or shutdown of the plant, develop protective strategies to protect against an armed assault by the design basis threat of radiological sabotage, and exercise these strategies periodically.

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

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Issue recommendations of the Safeguards Performance Assessment Task Force (SECY-99-024)	1/22/99 C	R. Rosano, DIPM
2. Conduct Commission briefing for SECY-99-024	5/5/99 C	R. Rosano, DIPM
3. Complete rulemaking plan for development of an exercise rule and review of 10 CFR 73.55 and associated security regulations (SECY-99-241)	10/5/99 C	R. Rosano, DIPM

<b>Through June 30, 2000</b>		
Milestones	Date	Lead
4. Conduct public meetings with industry groups and other stakeholders	TBD	R. Rosano, DIPM

<b>Beyond June 30, 2000</b>		
Milestones	Date	Lead
5. ACRS Briefing	TBD	R. Rosano, DIPM
6. CRGR Briefing	TBD	R. Rosano, DIPM

<b>Beyond June 30, 2000</b>		
7. Proposed rule to Commission (199800188)	TBD	R. Rosano, DIPM
8. Proposed rule published in the <i>Federal Register</i> with a 75-day comment period	TBD	R. Rosano, DIPM
9. Resolution of public comments	TBD	R. Rosano, DIPM
10. Final rule to EDO (199800188)	TBD	R. Rosano, DIPM
11. Final rule to Commission	TBD	R. Rosano, DIPM
12. Publication of rule	TBD	R. Rosano, DIPM

Comments:

- 4-12. The schedule for these milestones are dependent on receipt and timing of Commission approval of the rulemaking plan, and on which of the three options discussed in SECY-99-241 is approved. For instance, if Option 3 is approved, the proposed and final rules to the Commission would be completed 18 months and 32 months, respectively, after Commission approval of the rulemaking plan.

**IV. Topic Area: Reactor Licensee Performance Assessment**

**T. Utilization of MOX Fuel in Nuclear Power Reactors**

SES Manager: Farouk Eltawila, Branch Chief, SMSAB/DSARE/RES

Program Manager: Richard Lee, RES

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

<b>Prior February 1, 2000</b>		
Milestone	Date	Lead
1. Develop a program plan	11/30/99	F. Eltawila, DSARE

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
2. Hold a public meeting to identify phenomena affecting MOX fuel behavior under reactivity insertion accidents (RIA), and LOCA	04/00	D.Persinko, NMSS R. Caruso, NRR R. Lee, RES
3. Issue Phenomena Identification and Ranking Tables (PIRT) report summarizing the expert elicitation to identify, and importance rank phenomena affecting MOX fuel behavior under reactivity insertion accidents (RIA) and LOCA	05/00	R. Lee, DSARE
4. Meet with the ACRS subcommittee to discuss PIRT results and proposed research plan	06/00	R. Lee, DSARE

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
5. Issue a PIRT report on Applicability of NUREG-1465 Source Term to MOX fuels	12/00	R. Lee, DSARE

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6. Meet with the ACRS subcommittee to discuss PIRT results and proposed research plan to address source term issues	01/01	R. Lee, DSARE
7. Complete Agreements with Belgonucleaire, Belgium, Institute de Protection et de Surte Nucleire (IPSN), France, and Japan Atopic Energy Research Institute (JAERI), Japan to obtain data on MOX fuel	01/01	R. Lee, DSARE
8. This activity is long-term with an anticipated completion date (e.g., SRP, Regulatory Guide) in 2005	06/05	F. Eltawila, DSARE

Comments:

8. This date will be updated as activities commence and progress is made.



**IV. Topic Area: Reactor Licensee Performance Assessment**

**U. High Burnup Fuel**

SES Manager: Farouk Eltawila, Branch Chief, SMSAB/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.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Develop a program plan	7/6/98C	R. Meyer, DSARE
2. Establish a baseline of technical knowledge in collaboration with EPRI, DOE, and foreign sources	Ongoing	R. Meyer, DSARE
3. Issue draft Phenomena Identification and Ranking Tables (PIRT) report summarizing the expert elicitation to identify, and importance rank phenomena affecting high burnup fuel behavior under reactivity insertion accidents (RIA)	12/99	R. Meyer, DSARE
4. Meet with the ACRS subcommittee to discuss RIA PIRT results and proposed research plans	01/00	R. Meyer, DSARE

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
5. Hold a public meeting to identify phenomena affecting high burnup fuel behavior under reactivity insertion accidents (RIA), and LOCA	04/00	R. Caruso, NRR R. Meyer, RES
6. Complete Agreements with Institute de Protection et de Sûreté Nucléaire (IPSN), France, and Japan Atomic Energy Research Institute (JAERI) Japan, to obtain data on RIA Tests for high burnup fuel	04/00	R. Meyer, DSARE

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
7. Identification and Ranking Tables (PIRT) reports summarizing the expert elicitation to identify, and important rank phenomena affecting high burnup fuel behavior under LOCA conditions	09/00	R. Meyer, DSARE
8. Meet with the ACRS subcommittee to discuss LOCA PIRT results and proposed research plans	10/00	R. Meyer, DSARE
9. Issue draft Phenomena Identification and Ranking Tables (PIRT) report summarizing the expert elicitation to identify, important rank phenomena affecting high burnup fuel behavior under BWR stability	06/01	R. Meyer, DSARE
10. Meet with the ACRS subcommittee to discuss BWR stability PIRT results and proposed research plans	07/01	R. Meyer, DSARE
11. Issue a PIRT report on Applicability of NUREG-1465 Source Term to high burnup fuel fuels	03/01	R. Meyer, DSARE
12. Meet with the ACRS subcommittee to discuss PIRT results and proposed research plan to address source term issues	04/01	R. Meyer, DSARE
13. Complete LOCA Oxidation tests for Zircaloy-2	09/01	H. Scott, DSARE
14. Complete 2 RIA tests at the Cabri (sodium loop) reactor	12/01	R. Meyer, DSARE
15. The activity is long-term with an anticipated completion date for the RIA tests and issuance of modification to (e.g., the SRP or Regulatory Guide) in 2007	06/07	F. Eltawila, DSARE

Comments:

3. This date will be updated as activities commence and progress is made.

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

**A. Dual Purpose Spent Fuel Cask Reviews**

**1) Transnuclear TN-68 Cask Review**

SES Manager: Susan F. Shankman, Deputy Director, Licensing and Inspection Directorate, Spent Fuel Project Office (SFPO)

Project Manager: David Tiktinsky, SFPO

Objective: To issue a Part 72 (storage) SER and certificate of compliance (through rulemaking) and a Part 71 (transportation) certificate of compliance for the TN-68 dual purpose cask system.

Coordination: The Part 72 (storage) SER and certificate of compliance have been issued in draft for rulemaking. SFPO is coordinating with OGC and IMNS to complete rulemaking and issue the certificate of compliance for use in April 2000.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
None		

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
1. Staff completes rulemaking; issues CoC for use under Part 72	04/00	P. Eng, SFPO P. Holahan, IMNS
2. Staff issues Part 71 SER and CoC	TBD	D. Tiktinsky, SFPO

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
None		

Comments: Transnuclear notified SFPO on October 28, 1999, that its response to our Request for Additional Information (RAI) will not be submitted until January 2000. The staff is currently reviewing the effect this delay will have on the staff's review schedule.

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

**A. Dual Purpose Spent Fuel Cask Reviews**

**2) BNFL Fuel Solutions (BFS) TranStor Cask Review**

SES Manager: Susan F. Shankman, Deputy Director, Licensing and Inspection Directorate, SFPO

Project Manager: Timothy Kobetz, SFPO

Objective: To issue a Part 72 (storage) SER and certificate of compliance (through rulemaking) and a Part 71 (transportation) certificate of compliance for the BFS dual purpose cask system.

Coordination: The Part 72 (storage) SER and certificate of compliance have not yet been issued in draft for rulemaking. Once they are issued, SFPO will coordinate with OGC and IMNS to complete rulemaking and issue the certificate of compliance.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
None		

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
1. Staff issues draft SER and CoC for rulemaking	TBD	T. Kobetz, SFPO
2. Staff issues Part 71 (transportation) CoC	TBD	T. Kobetz, SFPO
3. Staff completes rulemaking; issues CoC for use under Part 72	TBD	P. Eng, SFPO P. Holahan, IMNS

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
None		

Comments:

On March 22, 1999, BNFL completed the purchase of the commercial nuclear power business of Westinghouse Electric Company. As a result, BFS will combine with Westinghouse Spent Nuclear Fuel Programs to form a single company that will oversee

the design and licensing of the TranStor and Wesflex dual purpose cask applications.

- 1-3. On July 1 and 9, 1999, BFS notified NRC that it would not be able to meet schedule commitments to provide additional information required by the staff to complete their review of the Part 71 and Part 72 applications. BFS has not committed to NRC when it would be able to meet the outstanding commitments. Therefore, the staff cannot reschedule the completion of the TranStor Storage and Shipping Cask reviews until it has received the information from BFS. The staff conducted a management meeting with BFS on October 14, 1999, to discuss deficiencies in its quality assurance and corrective action programs. These deficiencies have resulted in delays by BFS in responding to commitments associated with the TranStor applications. The staff is currently assessing whether additional action is necessary, and how to proceed with the review of the TranStor applications.

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

**A. Dual Purpose Spent Fuel Cask Reviews**

**3) BNFL Fuel Solutions WESFLEX Cask Review**

SES Manager: Susan F. Shankman, Deputy Director, Licensing and Inspection Directorate, SFPO

Project Manager: Mary Jane Ross-Lee

Objective: To issue a Part 72 (storage) SER and certificate of compliance (through rulemaking). A future amendment to the TranStor shipping cask (currently under licensing review) may allow transportation of the Wesflex cask in the TranStor shipping cask.

Coordination: The Part 72 (storage) SER and certificate of compliance have not yet been issued in draft for rulemaking. Once they are issued, SFPO will coordinate with OGC and IMNS to complete rulemaking and issue the certificate of compliance.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
None		

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
1. Staff issues draft SER and CoC for rulemaking	03/00	M. Ross-Lee, SFPO

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
2. Staff completes rulemaking; issues CoC for use under Part 72	02/01	P. Eng, SFPO P. Holahan, IMNS

Comments:

On March 22, 1999, BNFL completed the purchase of the commercial nuclear power business of Westinghouse Electric Company. As a result, BFS will combine with Westinghouse Spent Nuclear Fuel Programs to form a single company that will oversee the design and licensing of the TranStor and Wesflex dual purpose cask applications.

*November 5, 1999*

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The staff has identified concerns with BFS' design control of the TranStor dual purpose cask. To date, these problems have not manifested themselves in the Wesflex application and, therefore, the Wesflex review remains on schedule. BFS has decided not to pursue a shipping cask application for the Wesflex design. Instead, BFS plans to amend the TranStor Shipping cask application to also transport the Wesflex storage cask.

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

**A. Dual Purpose Spent Fuel Cask Reviews**

**4) NAC-STC/MPC Cask Review**

SES Manager: Susan F. Shankman, Deputy Director, Licensing and Inspection Directorate, SFPO

Project Manager: Timothy McGinty, SFPO

Objective: To issue a Part 72 (storage) SER and certificate of compliance (through rulemaking) and a Part 71 (transportation) certificate of compliance for the NAC-STC/MPC dual purpose cask system.

Coordination: The Part 72 (storage) SER and certificate of compliance have been issued in draft for rulemaking. SFPO is coordinating with OGC and IMNS to complete rulemaking and issue the certificate of compliance for use in February 2000.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
None		

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
1. Staff completes rulemaking; issue CoC for use under Part 72	02/00	P. Eng, SFPO P. Holahan, IMNS

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
None		

Comments: Note that the Part 71 (transportation) CoC for this dual purpose cask was issued on 3/25/99.



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

**A. Dual Purpose Spent Fuel Cask Reviews**

**5) NAC-UMS Cask Review**

SES Manager: Susan F. Shankman, Deputy Director, Licensing and Inspection Directorate, SFPO

Project Manager: Timothy McGinty

Objective: To issue a Part 72 (storage) SER and certificate of compliance (through rulemaking) and a Part 71 (transportation) certificate of compliance 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 is coordinating with OGC and IMNS to complete rulemaking and issue the certificate of compliance for use in October 2000.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Staff issues draft storage SER and CoC for rulemaking	11/1/99C	T. McGinty, SFPO

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
None		

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
2. Staff completes rulemaking; issues CoC for use under Part 72	10/00	P. Eng, SFPO P. Holahan, IMNS

Comments: On July 16, 1999, NAC submitted an amendment request for the Part 72 application to include all fuel to be stored at Maine Yankee. At the request of NAC, the staff has deferred review of the NAC-UMS transportation application. This will allow the staff to focus resources on the recently submitted amendment request and support the decommissioning schedule for Maine Yankee.

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

**B. ISFSI Licensing - Private Fuel Storage**

SES Manager: Susan F. Shankman, Deputy Director, Licensing and Inspection Directorate, SFPO

Project Manager: Mark Delligatti

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

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

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Staff issues site SER	11/99	Delligatti, SFPO

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
2. Issue Draft EIS	3/00	Delligatti/ Flanders, SFPO
3. Staff issues supplement to SER	3/00	Delligatti, SFPO
4. Begin ASLB Hearing on Safety Contentions	6/00	Bullwark, ASLB, Turk, OGC

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<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
5. Issue Final Safety Evaluation Report	9/00	Delligatti/ Bailey, SFPO
6. Issue Final EIS	2/01	Delligatti/ Flanders, SFPO
7. Hearing on Environmental Contentions	4/01	Bullwark, ASLB, Turk, OGC
8. Final Decision on Licensing	8/01	Commission

Comments:

7. The ASLB hearing on Environmental Contentions, which is scheduled for 4/01, may be delayed to allow more time for review between the final EIS and the hearing.
8. The final decision on licensing will follow a decision from the hearing of environmental contentions.

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

**C. Generic Spent Fuel Transportation Studies**

- 1) Update of NUREG 0170
- 2) Update of NUREG/CR-4829

SES Manager: Susan F. Shankman, Deputy Director, Licensing and Inspection Directorate, SFPO

Project Managers: John Cook and Robert Lewis, SFPO

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: SFPO will coordinate internally with HLW, OGC, NRR, OPA, OCA, and OSP, and externally with the U.S. Department of Transportation to ensure that all technical, regulatory and stakeholder issues are considered and addressed.

Staff plans to have a series of public meetings in November-December 1999 and mid FY 2000 to obtain public stakeholder views on Package Performance Under Severe Accidents.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
None		

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
1. Publish reassessment of NUREG-0170 (NUREG/CR-XXX)	3/00	J. Cook, SFPO
2. Publish Phase I report on results of public meetings and contractor reviews	6/00	R. Lewis, SFPO

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<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
3. After NRC review and assessment of public comments on NUREG/CR-XXX and Phase I report, NMSS determines if additional actions are required	TBD	S. Shankman, SFPO

Comments: None

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

**C. Generic Spent Fuel Transportation Studies**

**3) Burnup Credit for Transportation**

SES Manager: Farouk Eltawila, Branch Chief, SMSAB/DSARE/RES  
Wayne Hodges, Deputy Director for Technical Review, SFPO

Objective: The objectives are to develop the technical bases to allow the utilization of burnup credit in such areas as spent fuel transportation packages, on-site dry storage, reactor pool storage, and disposal of high level waste in the repository. The information would be used by the staff to develop a Regulatory Guide and a Standard Review Plan to assist the staff in properly reviewing licensee requests for use of burnup credit.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Develop short-term regulatory process on review and acceptance of burnup credit package design	08/99C	C. Nilsen, DSARE

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
2. Establish a baseline of technical knowledge in collaboration with EPRI, DOE, and foreign sources	03/00	C. Nilsen, DSARE
3. Hold a public meeting to identify phenomena affecting burnup credit	04/00	NMSS/RES
4. Issue Phenomena Identification and Ranking Tables (PIRT) report summarizing the expert elicitation to identify, and rank important phenomena affecting burnup credit	06/00	C. Nilsen, DSARE
5. Complete Agreements with Belgonucleaire, Belgium, Institute de Protection et du Surte Nucleaire (IPSN), France, and Japan Atomic Energy Research Institute (JAERI), Japan to obtain data on burnup credit	06/00	C. Nilsen, DSARE

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
6. Meet with the ACRS subcommittee to discuss PIRT results and proposed research plans to address source term issues	08/00	C. Nilsen, DSARE
7. Develop the technical bases to reduce uncertainty and refine the NRC technical position on review and acceptance of extended burnup credit package design	09/01	C. Nilsen, DSARE
8. Issue a Standard Review Plant to assimilate the technical areas and provide the NRC staff with criteria and processes to review and approve burnup credit in safety analysis	09/02	W. Hodges, SFPO
9. This activity is long-term with an anticipated completion date (e.g., SRP, Regulatory Guide) in 2004	06/04	F. Eltawila, DSARE

Comments:

9. This date will be updated as activities commence and progress is made.

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

**C. Generic spent fuel transportation studies**

**4) Characterization of Fuel Stored in Dry Cask**

SES Manager: Michael Mayfield, Branch Chief, MEB/DET/RES and  
Farouk Eltawila, Branch Chief, SMSAB/DSARE/RES

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

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
1. Complete visual inspections of the exterior and interior of the Castor-V/21 cask, cask seals, fuel tubes, fuel assemblies, and selected Surry nuclear power plant fuel rods placed into dry storage in 1985	02/00	M. Mayfield, DET
2. Complete scoping study on the effects of zinc vapor on the mechanical properties of fuel cladding, assess the need for additional research	02/00	M. Mayfield, DET

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
3. 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 cladding	03/02	F. Eltawila, DSARE
4. Meet with the ACRS/ACNW subcommittee to discuss results and proposed research plan	03/02	F. Eltawila, DSARE
5. Develop technical bases for evaluating the high-burnup nuclide inventories and associated source terms used in the thermal, shielding, confinement, and burnup-credit subcriticality analyses needed for licensing the transport, storage, and repository disposal of high-burnup fuel	TBD	F. Eltawila, DSARE



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6. Provide data and reports (NUREG/CRs) that can be used to update the Standard Review Plan for Dry Cask Storage Systems (NUREG-1536) and to develop a Standard Review Plan for Renewal of Licenses and Certificates of Compliance for Spent Fuel Dry Cask Storage System	TBD	M. Mayfield, DET F. Eltawila, DSARE
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Comments: None

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

**D. Uranium Recovery Concerns (NMA White Paper Issues)**

- Dual regulation of ground water at in situ leach (ISL) facilities
- Expanded use of mill tailings impoundments to dispose of other material
- Eliminate consideration of economics in the processing of alternate feedstock

SES Manager(s): John Surmeier, Chief, Uranium Recovery and Low-Level Waste Branch, Division of Waste Management (DWM)

Objectives: To look for ways to: (1) eliminate dual regulation of ISLs facilities; (2) reduce unnecessary regulatory burden on uranium mills wanting to expand the use of impoundments for disposal of other materials besides mill tailings; and (3) reduce unnecessary regulatory burden on uranium mills who want to engage in recycling of materials for their uranium content

Coordination: OGC

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Paper on concurrent jurisdiction to Commission (199900085)	11/15/99	Mike Fliegel, DWM

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
2. Complete Part 41 rulemaking plan, including recommendations on regulatory changes to address the three issues (199800177) (SECY-99-012)	4 months after Comm. Direction	Mark Haisfield, DWM Mike Fliegel, DWM
3. Issue revised draft guidance on disposal capability with any Commission-approved revisions (SECY-99-012)	6 months after Comm. Direction	Dan Gillen, DWM
4. Implement any changes in review of alternate feedstock that result from hearing and Commission review of previous hearing orders (SECY-99-13)	6 months after Comm. Direction	Dan Gillen, DWM
5. Revise ISL Standard Review Plan to implement staff recommendations if approved by Commission	6 months after Comm. Direction	Bill Ford, DWM

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<b>Beyond June 30, 2000</b>		
<b>Milestone</b>	<b>Date</b>	<b>Lead</b>
6. Publish proposed Part 41 for public comment, including regulatory changes to address three issues (199800177) (SECY-99-011)	12 months after completion of the rulemaking plan	Mark Haisfield, DWM Mike Fliegel, DWM
7. Publish final Part 41 codifying agency policy on resolution of three issues (199800177)	11 months after publication of the proposed rule	Mark Haisfield, DWM Mike Fliegel, DWM

Comments: The three issues raised in the Senate report were addressed in the National Mining Association white paper that was presented to the Commission in April 1998.

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

**E. Part 40: Licensing of Source Material**

SES Manager: Donald Cool, Director, 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) under various Federal statutes.

Coordination: OSP, OGC, OE, ADM, CIO. RES is developing technical basis for exemptions in Parts 30 and 40.

Interaction with States, EPA, etc. will begin in January, 2000. The proposed rule on transfers from licensees will be sent to the Agreement States 3 months after the SRM is received. The draft rule plan on control of distribution will be sent to the Agreement States 9 months after the SRM is received.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Commission paper (SECY 99-259) (199800203)	11/1/99C	C. Mattsen, IMNS

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
2. Proposed rule (on transfers from licensees) to Commission	SRM + 6 months	J. Smith, IMNS

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
3. Provide additional recommendations to Commission on exemption issues based on results of ORNL's report	12/2000	C. Mattsen, IMNS
4. Rule plan (on control of distribution) to Commission	SRM + 12 mon.	C. Mattsen, IMNS

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<b>Beyond June 30, 2000</b>		
5. Final rule (on transfers from licensees) to Commission	end of comment period + 6 mon.	J. Smith, IMNS

Comments: None

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

**F. Part 41 Rulemaking**

SES Manager(s): J. Surmeier, Branch Chief, Uranium Recovery and Low-Level Waste Branch, DWM and C. Haney, Rulemaking and Guidance Branch, IMNS

Objective: Separate out and update uranium recovery regulations into new Part 41

Coordination: OGC and OSP

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
None		

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
1. Issue final rulemaking plan (199800177)	4 months after Comm. Direction	M. Haisfield, DWM M. Fliegel, DWM

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
2. Publish proposed Part 41 for public comment	12 months after completion of the rulemaking plan	M. Haisfield, DWM M. Fliegel, DWM
3. Publish final rule	11 months after publication of the proposed rule	M. Haisfield, DWM M. Fliegel, DWM

Comments: None

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

**G. Reactor Decommissioning Guidance**

SES Manager: J. Greeves, Director, DWM

Objective: Incorporate public comments into a final version of the SRP for License Termination Plans

Coordination: NRR, Regions, RES. A Multi-Agency Radiologic Laboratory Analysis Procedure (MARLAP) manual is being developed with EPA, DOE, NIST, DOI, and DOD. This manual will ensure common laboratory radioanalysis procedures are used to support final radiologic survey sample analysis. This document is scheduled to be issued for internal agency review in January 2000.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Publish final version of SRP for License Termination Plans	3/00	L. Pittiglio, NMSS

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
2. Complete D&D, Version 2, computer code	6/00	C. Trottier, RES
3. Complete RESRAD, Version 6.0, and RESRAD-BUILD, Version 3.0, computer codes	6/00	C. Trottier, RES

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
4. Issue user's guide and parameter description for D&D, Version 2, computer code	11/00	C. Trottier, RES
5. Publish manual and code testing RESRAD, Version 6.0, and RESRAD-BUILD, Version 3.0, computer codes	11/00	C. Trottier, RES

Comments:

1. Substantial modeling effort is underway to revise D&D and RESRAD. The staff anticipates that refinement to the dose modeling will continue. MARLAP and other guidance are under development and are scheduled for completion in FY.

*November 5, 1999*

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RES has the lead for the development of DG 4006. Dates for DG 4006 will be provided in the next update.

This task is independent of activities covered under IV.J, which are guidance activities under NRR lead.



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

**H. Atlas Bankruptcy and Site Reclamation**

SES Manager(s): John Surmeier, Branch Chief, Uranium Recovery and Low-Level Waste Branch, DWM

Objective: Complete Reclamation of Atlas Site in Moab, Utah

Coordination: OGC

Will hold public meetings in Moab, Utah, in January, 2000.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Select Trustee for Atlas Trust	11/99	M. Fliegel, DWM
2. Transfer license and assets to Trust	12/99	M. Fliegel, DWM
3. NRC approve tailings dewatering plan	2/00	M. Fliegel, DWM

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
4. Staff Qs on revised ground-water corrective action program	6/00	M. Fliegel, DWM

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
5. Staff approve revised ground-water corrective action program	TBD	M. Fliegel, DWM
6. Staff approve radon barrier construction	TBD	M. Fliegel, DWM
7. Staff approve completion of surface reclamation	TBD	M. Fliegel, DWM
8. Staff approve completion of ground-water corrective action program	TBD	M. Fliegel, DWM

Comments: None

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

**I. West Valley Decommissioning Criteria**

SES Manager: J. Greeves, Director, DWM

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

Public meeting on policy statement at West Valley site will be conducted in December, 1999.

Public comments will be incorporated into revised policy statement in March, 2000.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Publish draft West Valley decommissioning criteria policy statement in the <u>Federal Register</u> (199800178)	11/30/99	J. Parrott, DWM

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
2. Commission Paper, with revised policy statement, to Commission for approval (199800178)	6/30/00	J. Parrott, DWM

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
3. Publish revised policy statement in <u>Federal Register</u>	9/30/00	J. Parrott, DWM
4. After publication of West Valley Supplemental EIS, approve specific criteria for West Valley site	TBD	J. Parrott, DWM

Comments: Timing of final decommissioning criteria issuance will depend on DOE publication of the West Valley Supplemental EIS.

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

**J. Decommissioning Management Plan Site Status**

SES Manager: J. Greeves, Director, DWM

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

Coordination: Region I

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Remove the Pesses site from the SDMP	10/99C	R. Bellamy, R-I

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
2. SDMP Master Schedule developed	3/00	L. Camper, DWM

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
3. Remove the Watertown Mall site from SDMP	9/00	R. Bellamy, R-I

Comments:

- 2. The Master Schedule will be updated on an ongoing basis.

Due to the complexity of removing sites, staff is working to identify a third SDMP site for removal during FY 2000.

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

**K. Part 61, Mixed Waste Rulemaking**

SES Managers: Donald Cool, Director, IMNS  
 John Greeves, Director, DWM

Objective: Develop final rule for disposal of mixed waste in a RCRA facility following promulgation of EPA final rule.

Coordination: OGC, OSP

Will continue to work with EPA on the development of EPA proposed rule.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
None		

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
1. Staff comments on EPA proposed rule to the Commission	TBD (depending on EPA's schedule)	

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
2. Paper to Commission on proposed rule following publication of EPA's final rule	EPA publication date+ 9 months	J. Smith, IMNS
3. Paper to Commission on final rule	Close of public comment period + 9 months	J. Smith, IMNS

Comments:

1. The vehicle for providing comments has not yet been established; comments may be provided in the form of a Commission paper, or a meeting with the Commissioner's assistants.

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

**L. Prepare for Licensing a HLW Repository:**

**1) Part 63 Rulemaking**

SES Managers: Donald Cool, Director, IMNS  
 Bill Reamer, DWM

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

Coordination: OGC

A facilitated public meeting on defense in depth was held on November 2, 1999.

ACNW meeting on draft staff responses to public comments will be held in November, 1999.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
None		

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
1. Draft final rule to Commission. (199800029)	3/31/00	J. Kotra, DWM, T. McCartin, DWM C. Prichard, IMNS

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
None		

Comments: None

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

**L. Prepare for Licensing a HLW Repository:**

**2) Staff Review of DOE Draft Environmental Impact Statement (DEIS) for Yucca Mountain**

SES Managers: Bill Reamer, DWM; Joe Holonich, DWM

Objective: Provide DOE with NRC comments on DEIS for Yucca Mountain

Coordination: OGC

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Paper to Commission transmitting staff comments (199900094)	1/14/00	James Firth, DWM

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
2. Provide comments to DOE	2/9/00	James Firth, NMSS

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
None		

Comments:

Nuclear Waste Policy Act, as Amended requires DOE to include NRC comments on the environmental impact statement with any site recommendation.

2. Comment period on the DEIS ends on February 9, 2000. Milestone and schedule are dependent upon Commission decision.

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

**L. Prepare for Licensing a HLW Repository**

**3) NRC Comments on Doe HLW Site Recommendation**

SES Manager: Bill Reamer, DWM

Objective: Provide DOE in FY 2001 with the Commission preliminary comments concerning the extent to which the at-depth Site characterization analysis and waste form proposal seem sufficient for inclusion in the license application.

DOE will incorporate the Commission comments in its Site Recommendation Report to the President in mid FY 2001. These activities are required by the Nuclear Waste Policy Act.

Coordination: OGC

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
None		

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
None		

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
1. Paper to Commission on Final Staff Guidance for Site Recommendation Review	9/30/00	Manny Comar
2. Paper to Commission on Final Site Recommendation Review to Commission	4/30/01	Manny Comar

Comments:

2. Commission paper and comments to DOE are subject to receiving DOE Site Recommendation report by 11/30/00.

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

**M. Part 35 Rulemaking: Medical Use Regulation**

SES Manager(s): Donald Cool, Director, IMNS

**Objective:** Primary: Revise Part 35, "Medical Use of Byproduct Material," into a risk-informed, more performance-based regulation. Secondary objectives include: provide for incorporation of regulatory requirements for new treatment modalities in a timely manner; revise the quality management program to focus on those requirements that are essential for patient safety; and incorporate or reference available industry guidance and standards.

**Coordination:** The revised Part 35 and Medical Policy Statement (MPS) were developed by a Working Group and Steering Group that included representatives of other offices (OGC, OSP, OE) and the regional licensing and inspection staff. The associated guidance document (draft NUREG-1556, Volume 9, "Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Medical Licenses") was developed by licensing and inspection staff from several regions. Once the revised Part 35 becomes final, this document will be used for preparing and reviewing applications for medical use licenses.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
None		

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
1. Submit final rulemaking package (including draft NUREG-1556, Vol.9) to the Commission for approval (199700065)	TBD	D. Flack, IMNS
2. Submit revision of NRC's Medical Policy Statement to the Commission for approval	TBD	C. Haney, IMNS
3. Revise rulemaking package and Medical Policy Statement following Commission review and approval of final rulemaking package and MPS	TBD	D. Flack, IMNS



Beyond June 30, 2000		
Milestone	Date	Lead
4. Publication of final rule in the Federal Register	Approx. 90 days after OMB approval of information collection requirements	D. Flack, IMNS

Comments:

- SECY-99-201 in response to 4/23/99 SRM issued 8/3/99.
- Briefed Commission on SECY-99-201 on 10/21/99

1&3. Staff expects the schedule for completion of the rulemaking, associated guidance, and Medical Policy Statement to be provided in the SRM that will be issued on SECY-99-201.

Enforcement - When the revision becomes final, minor changes will be made in the examples of violations in Appendix B of NUREG 1600.

Inspection - A separate NMSS task is the development of more performance-based inspection procedures for material licensees. The medical licensee inspection procedures are being developed with the current Part 35. Therefore, when Part 35 is finalized and the draft inspection procedures are approved, they will need to be revised to conform with the revised regulations.

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

**N. General Licenses Regulation (Part 30)**

SES Manager: Donald Cool, Director, IMNS

Objectives: Improve accountability for certain generally licensed devices, allow NRC to better track certain general licensees and the devices they possess, and to further ensure that general licensees are aware of and understand the requirements for the possession of devices containing byproduct material.

Coordination: OSP, OGC, OE, ADM, CIO

NRC will send the draft final comprehensive rule to Agreement States in February, 2000.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Final rule on requests for information published	8/4/99C	C. Mattsen, IMNS
2. Draft licensee guidance published for public comment	9/99C	S. Merchant, IMNS

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
3. Final comprehensive rule to Commission (199800071)	5/16/00	C. Mattsen, IMNS
4. Complete development of general license database and registration system	6/30/00	M. Raddatz, IMNS

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
5. Publish final comprehensive rule	SRM +1 mon.	C. Mattsen, IMNS
6. Publish draft licensee guidance for public comment	FRN +1 mon.	S. Merchant, IMNS

Comments: None

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

**O. Release of Solid Materials**

SES Managers: Donald Cool, Director, IMNS  
 John Greeves, Director, DWM

Objective: To consider preparing a dose-based regulation for control of solid materials, including enhanced public participation in such a process, and to provide a briefing to the Commission in March 2000 on results of the Fall 1999 public meetings and comment and recommendations for next steps.

Coordination: Public meetings will be held between September 1999 - December 1999. An ACNW meeting will be held in December, 1999 on the status of the public comments received, and for ACNW's comments on Issues Paper.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Published FRN with Issues Paper and announcement of scoping; Issues Paper placed on NRC Website	6/30/99C	F. Cardile, IMNS

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
2. Commission paper to Commission (199400059)	3/22/00	F. Cardile, IMNS

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
3. Further activities based on Commission review of Commission paper	TBD	F. Cardile, IMNS

Comments: None

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

**P. Spent Fuel Shipment Information Protection Requirements (Part 73) Rulemaking**

SES Managers: Don Cool, Director, IMNS  
 E. William Brach, Director, SFPO  
 Elizabeth Ten Eyck, Director, FCSS

Objective: Advanced notification for proposed rulemaking to amend Part 73. 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: OSP, OE, OGC, NRR

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
None		

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
None		

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
1. Rulemaking plan to Commission for approval	8/7/00	A. DiPalo, IMNS
2. Proposed rule to Commission	1/15/01	A. DiPalo, IMNS
3. Final rule to Commission	11/30/01	A. DiPalo, IMNS
4. Publish final rule	1/30/02	A. DiPalo, IMNS

Comments: None

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

**Q. Part 71 Rulemaking**

SES Managers: Donald A. Cool, Director, IMNS  
 E. William Brach, Director, SFPO

Objectives: To prepare a rulemaking 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).

Coordination: SFPO, OSP, OGC

A draft rulemaking plan will be sent to Agreement States in February 2000.

A presentation to the ACNW on the revised Commission paper/rulemaking plan will be made in April, 2000.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Revise FRN responding to public comments on the fissile material emergency final rule, to indicate the Commission's need for cost information regarding any unintended economic impact caused by the emergency final rule. Published FRN.	10/27/99C	N. Tanious, IMNS
2. Revise the same FRN to indicate that any unintended economic impact issue will be addressed as part of the rulemaking to make Part 71 compatible with the IAEA transportation standards. Published FRN.	10/27/99C	N. Tanious, IMNS

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
3. Revised Commission paper to the Commission (199800008)	5/31/00	N. Tanious, IMNS

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<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
4. Publish, concurrently with DOT, proposed rule to revise Part 71	9/30/00	N. Tanious, IMNS
5. Publish final rule concurrently with DOT	9/30/01	N. Tanious, IMNS

Comments: None

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

**R. Part 72 Rulemaking:**

**1) Greater-Than-Class-C (GTCC) Waste**

SES Managers: Donald Cool, Director, IMNS  
 E. William Brach, Director, SFPO

Objective: Staff response to Commission SRM dated March 12, 1999, to develop a proposed rule to allow the interim storage of GTCC waste under the provisions of 10 CFR Part 72. This responds to PRM-72-2 from Portland General Electric Company.

Coordination: OSP, OGC

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Proposed rulemaking package to Commission (199600157)	1/28/00	M. Haisfield, IMNS

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
2. Publish proposed rule	SRM+1 month	M. Haisfield, IMNS

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
3. Final rulemaking package to Commission (199600157)	TBD	M. Haisfield, IMNS

Comments: None

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

**R. Part 72 Rulemaking:**

**2) Clarification and Addition of Flexibility**

SES Managers: Don Cool, Director, IMNS  
 E. William Brach, Director, SFPO

Objective: Amend spent fuel storage regulations in 10 CFR Part 72 to specify those sections that apply to general licensees, specific licensees, applicants for a specific license, certificate holders and applicants for a certificate. The proposed rule would (1) eliminate ambiguity for those persons by clarifying which sections apply to their activities, (2) eliminate the necessity for repetitious Part 72 specific license hearing reviews of cask design issues that the Commission previously considered and resolved during approval of the cask design, and (3) allow an applicant for a COC to begin fabrication under an NRC-approved QA program before the COC is issued.

Coordination: OSP, OE, OGC, NRR

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Publish proposed rule in Federal Register	11/3/99C	A. DiPalo, IMNS

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
2. Paper to Commission (199600159)	6/30/00	A. DiPalo, IMNS

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
3. Publish final rule in Federal Register	8/15/00	A. DiPalo, IMNS

Comments: None



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

**S. Part 70 Rulemaking**

SES Managers: Theodore S. Sherr, Chief, Licensing and International Safeguards Branch, Division of Fuel Cycle Safety and Safeguards (FCSS)

Project Manager: Andrew Persinko, FCSS

Objectives: To issue final amendments to 10 CFR Part 70. The amendments, as proposed in July 1999, would identify appropriate consequence criteria and the level of protection needed to prevent or mitigate accidents that 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. The rulemaking package submitted to the Commission will include a draft final rule and associated draft Standard Review Plan for fuel cycle facilities.

Coordination: The Part 70 rulemaking effort requires close coordination with the Office of the General Counsel (OGC). FCSS and OGC staff have been, and will continue to work closely in, developing the draft final rulemaking package. OGC staff will attend public meetings with stakeholders which will be held in February 2000.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Revise draft Part 70 Standard Review Plan	1/31/00	A. Persinko FCSS

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
2. Draft final rule and draft final Standard Review Plan to Commission (199500041)	5/16/00	A. Persinko FCSS

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<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
None		

Comments: None

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

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

SES Managers: Donald Cool, Director, IMNS  
 Elizabeth Ten Eyck, Director, FCSS

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

Coordination: OIP, OSP, OGC

Draft rulemaking plan will be sent for Agreement State review in December 1999.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
None		

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
1. Send rulemaking plan to Commission for approval	3/20/00	J. Telford, IMNS

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
2. Send proposed rule to Commission for approval	SRM+6 Months	J. Telford, IMNS

Comments: None

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

**U. Mox Licensing**

SES Manager(s): Robert C. Pierson, Chief, Special Projects Branch, FCSS

Project Manager: Melanie Galloway, Section Chief, Enrichment Section, FCSS

Objective: To license the mixed-oxide (MOX) fuel fabrication facility. During FY 2000, NRC will prepare a licensing Standard Review Plan and conduct limited pre-licensing consultation and submittal reviews.

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

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
None		

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
1. Publish final Standard Review Plan	4/28/00	M. Galloway, FCSS

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
2. Initiate review of application	11/00	M. Galloway, FCSS

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. NRC is working with the applicant to determine dates for the issuance of the draft Safety Evaluation Report, the Safety Evaluation Report, the Draft Environmental Impact Statement and the Final Environmental Impact Statement.

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

**V. Lessons Learned Concerning the Nuclear Criticality Accident at Tokaimura**

SES Manager: Philip Ting, Chief, FCOB/FCSS/NMSS

Project Manager: William Troskoski, FCOB/FCSS

Objective: Analyze the Tokai nuclear criticality accident, to identify implications for NRC fuel cycle licensees and certificate-holders and determine whether any changes to NRC's regulatory program for fuel cycle facilities are needed. Disseminate lessons learned to NRC licensees, certificate-holders, and other stakeholders.

Coordination: This project is being coordinated between NMSS, Regions II, III, and IV, OIP, OGC, and OEDO.

Coordination will also be done with DOE, DOS, EPA, and NSC. In addition, the results of an industry external review of operations, including nuclear criticality safety programs, led by NEI, will be reviewed prior to completing task.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
None		

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
1. Provide report to Senate staff concerning the accident	2/29/00	D. Morey, FCOB
2. Information Paper to Commission concerning lessons learned from DOE and Government of Japan review of the accident	3/31/00	W. Troskoski FCOB

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
None		

Comments: None

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

**W. Risk-Informed Baseline Fuel Cycle Safety Inspection Program**

SES Manager: Philip Ting, Chief, FCOB/FCSS

Program Manager: Walter Schwink, Assistant Chief, FCOB/FCSS

**Objective:** To develop and implement a more risk-informed, performance based, efficient, and effective safety baseline inspection program for fuel cycle facilities. The revised inspection program will provide for consideration of performance indications obtained from inspections and where practicable credible performance indications volunteered by licensees. Licensee hazards, control of hazards for acceptable risks, and safety related performance (engineered and human) will weigh heavily in allocating safety baseline inspection resources to each licensee and risk significant licensee activity area.

**Coordination:** Program development is being coordinated with NMSS, Regions II and III, OE, NRR, and OGC. Project is also integrated with other NRC initiatives, such as II.A. Risk-Informed Baseline Inspection Program (for reactors) and VI.S. Part 70 Rulemaking, so that the revised inspection program will comport with emerging requirements, guidance, and policies involving fuel cycle facility safety.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Hold a public workshop with the stakeholders	10/99 C	W. Schwink, FCSS
2. Hold a second public workshop with the stakeholders	12/99	W. Schwink, FCSS

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
3. Hold a third public workshop on the initial draft of the revised inspection procedures	3/00	W. Schwink, FCSS

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
4. Information Paper to Commission concerning the status of revising the inspection program	07/00	W. Schwink, FCSS

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<b>Beyond June 30, 2000</b>		
5. Information Paper to Commission concerning the status of the ongoing pilot program for revision of the inspection program	12/00	W. Troskoski, FCSS
6. Information Paper to Commission concerning the pilot program results	08/01	W. Troskoski, FCSS

Comments:

2&3. These dates are subject to the availability of stakeholders to participate

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

**X. Threat Assessment Activities (Coordinated with Reactor Safeguards Initiatives, IV. S.)**

SES Manager: Philip Ting, Chief, FCOB/FCSS

Project Manager: Roberta Warren, Team Leader, TAT/FCOB/FCSS

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

Coordination: Staff will coordinate with NMSS, NRR, SP, ADM, Regional offices, OGC, and IRO.

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Paper to Commission: Restoration of NRC Funding For Interagency Credibility Assessment Team	11/99	Warren, FCSS
2. Paper to Commission: National Initiatives Re Weapons of Mass Destruction and Impact on NRC (199900091)	11/99	Davidson, FCSS

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
None		

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
3. Paper to Commission: Semi-Annual Threat Environment (199900076)	7/00	Danis

Comments: Milestones may be event driven and other than anticipated.



**VI. Topic Area: Changes to NRC's Hearing Process**

**A: Use of Informal Adjudicatory Procedures**

SES Manager: Joe Gray, OGC

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Conduct public workshop on hearing process	10/26/99C	F.X. Cameron, OGC
2. Prepare Commission paper and proposed rulemaking for Commission review	1/15/00	T. Rothschild, OGC
3. Commission decision on proposed rulemaking	TBD	T.Rothschild,OGC

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
4. Publish proposed rules for comment	TBD	T. Rothschild,OGC

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
5. Submit Final rules to Commission	TBD	T.Rothschild, OGC
6. Commission approves/affirms final rules	TBD	T. Rothschild, OGC
7. Publish final rules in Federal Register	TBD	T.Rothschild,OGC
8. Final Rules effective	TBD	T.Rothschild, OGC

Comments: None

**VII. Topic Area: State Programs**

**A. Agreement with the State of Pennsylvania**

SES Managers: Frederick Combs, Deputy Director, Office of State Programs

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

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. Pennsylvania submitted draft request for an Agreement	2/24/99C	David Allard, PA
2. Staff conducted completeness review of draft request	6/19/99C	S. Salomon, OSP

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
None		

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
3. Pennsylvania to file an application for an Agreement	1/01/00	S. Salomon, OSP
4. Negative consent Commission Paper to Commission	9/01/00	S. Salomon, OSP
5. Commission to give negative consent	10/01/00	
6. Final assessment after publication in FR	1/02/01	S. Salomon, OSP
7. Commission SRM approving the Agreement	2/02/01	
8. Agreement effective	2/02/01	

Comments: None

**VII. Topic Area: State Programs**

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

SES Manager: Frederick Combs, Deputy Director, Office of State Programs

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

<b>Prior to February 1, 2000</b>		
Milestone	Date	Lead
1. OK submitted draft request for an Agreement	9/17/99C	M. Broderick, OK
2. Send completeness review comments to State	11/22/99	P. Larkins, OSP

<b>Through June 30, 2000</b>		
Milestone	Date	Lead
3. Projected date for Governor's formal request	1/22/00	M. Broderick, OK
4. Negative consent paper to Commission for publication	5/15/00	P. Larkins, OSP
5. Publication for Public Review and Comment	6/12/00	P. Larkins, OSP

<b>Beyond June 30, 2000</b>		
Milestone	Date	Lead
6. Final draft assessment and publication of comments to Commission	9/12/00	P. Larkins, OSP
7. Commission SRM approving the Agreement	10/12/00	
8. Agreement effective date	11/12/00	
9. Agreement Signing	11/24/00	

Comments: None