

COMMISSION BRIEFING SLIDES/EXHIBITS

**BRIEFING ON DECOMMISSIONING ACTIVITIES AND
STATUS**

SEPTEMBER 28, 2001

Decommissioning Program

REC'D BY SECY

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SECY-01-0156

September 28, 2001

OVERVIEW

- Decommissioning Program Summary
- Status of SDMP sites/complex sites
- Reactor Decommissioning Summary
- Efforts to enhance efficiency/effectiveness
- Challenges

DECOMMISSIONING PROGRAM

- Material and fuel cycle decommissioning
- Environmental evaluations
- Reactor decommissioning
- Regulatory improvements
- Research activities

MATERIAL & FUEL CYCLE DECOMMISSIONING

- SDMP & other complex sites
- License termination file reviews
- Pilot study for decommissioning
- West Valley
- Decommissioning funding analysis

SDMP & COMPLEX SITES

SDMP Progress to Date

- 22 sites removed after successful remediation
- 11 sites removed by transfer

STATUS

- 22 of 27 sites have submitted DPs
- Approved DPs
- Sites considering restricted release
- SDMP sites may be transferred to Pennsylvania

LICENSE TERMINATION FILE REVIEWS

- Reviewed approximately 37,000 licenses
- 39 sites had contamination above limits
- Project completed
- Path forward

PILOT STUDY

Commission direction- SRM of March 1997

- Three facilities completed
- Evaluation in Commission Paper under development

WEST VALLEY OVERSIGHT

- Decommissioning criteria
- Review Draft EIS
- Review Safety Analysis Reports
- Periodic on-site monitoring
- Interface activities

DECOMMISSIONING FUNDING ANALYSIS

- Commission Papers in response to
SRM-SECY-00-180
 - DOE MOU & FA review- October 2001
 - Decom. Funding Analysis- April 2002

ENVIRONMENTAL EVALUATIONS

- Review EAs
- Developing EIS and EA guidance
- Review EISs
- Support NRR on GEIS revision
- Preparing EISs

REACTOR DECOMMISSIONING

- 19 Plants in decommissioning
 - 9 dismantling and decontaminating
 - 10 in long-term safe storage
- License termination
- Forecast

EXPERIENCE

- Existing regulatory structure
- Implementation
 - opportunity for considerable flexibility
 - public interest and participation high
 - risk insights

REGULATORY IMPROVEMENTS

- Rulemaking
- Guidance
- Public outreach
- Interoffice coordination

RESEARCH ACTIVITIES

- Probabilistic versions of RESRAD
- Selecting and testing conceptual models
- Monitoring strategies for unsaturated zone
- Data on degradation of slags
- Validation and testing of 4SIGHT
- New initiatives

ENHANCING EFFICIENCY & EFFECTIVENESS

- Phased review process
- Improved inspection efficiency
- Interface with Stakeholders
- Guidance consolidation
- Expanded acceptance reviews

CHALLENGES

STAFF

- Dose modeling approach
- Implementing lessons learned

COMMISSION/STAFF

- Restricted release
- Innovative approaches
- Partial site releases
- Finality

ACRONYMS

- DECON- Where the equipment, structures, and portions of the facility and site that contain radioactive contaminants are promptly removed or decontaminated to a level that permits termination of the license shortly after permanent cessation of operations.
- DOE- U.S. Department of Energy
- DP- Decommissioning Plan
- EA- Environmental Assessment
- EIS- Environmental Impact Statement
- ENTOMB- Entombment
- FA- Financial Assurance
- GEIS- Generic Environmental Impact Statement
- LTP- License Termination Plan
- MOU- Memorandum of Understanding
- NEI- Nuclear Energy Institute
- NRR- Office of Nuclear Reactor Regulation
- Q&A- Questions and Answers
- SAFSTOR- Where the facility is placed in a safe, stable condition and maintained in a safe storage state until it is subsequently decontaminated and dismantled to levels that permit termination of the license
- SDMP- Site Decommissioning Management Plan
- SRM- Staff Requirements Memorandum