Practical Exercise Group C

Speaker: Mr. A. Hernandez Maldonado

Members:

L. S. Leopando

O. Abulgasem (Answerer)

I. Muhamad

K. Huda

L. Vinh

Moderator: Mr. I. Lund

Technical Meeting
Legal and Regulatory Aspects of Decommissioning

Research Reactor Decommissioning Demonstration Project (R2D2P) 26 - 30 June 2006, Manila, Philippines



Regulatory Issues

 Set of Rules and Regulations (Legislative Doc) Required by the RB to support the Decommissioning Process

Solutions

RB shall provide the following:

- Basic Safety Standard
- National Guidelines on Decommissioning of RR
- Waste and Disposal Management Regulations
- Transport Regulations (exist)
- Radiation Protection Regulations (exist)
- Environmental Quality Act (exist)
- Occupational Health and Safety Regulations (?)

Note: In case of the Legal Framework is not in place, the State may adopt from International Standards issued by IAEA and/or other sources.



Fuel Removal Authorization (from site)	Waste Storage	Decommissioning License
Plan for Constructing a fuel storage building Transportation procedures Criticality calculation Safety & Security	Site QA & Procedures Monitoring plan Type and Capacity Facility layout and access Potential hazards Waste characterization Safety, Security &Safeguards Engineering structure	Decommissioning Plan Decommissioning Management Decommission Method / Strategy Quality Assurance Financial Assurance Waste Management Responsibilities of Various Parties: Operator, Contractor Other relevant parties. Estimation of: Time Dose Cost Future plan of the Site

Fuel Removal Authorization	Waste Storage	Decommissioning License
(from site) The RB shall provide:	The RB shall provide :	The RB shall provide :
Set of licensing guidance and procedures for review;	Set of licensing guidance and procedures for review;	Set of licensing guidance and procedures for review;
Competent personnel for reviewing the application; Acceptance criteria for fuel transportation (containers) and storage authorization (licensing conditions, if any)	Competent personnel for reviewing the application; Acceptance criteria for waste storage license (licensing conditions, if any)	Competent personnel for reviewing the application; Acceptance criteria for decommissioning license (licensing conditions, if any)

Regulatory Issues Licensing/Authorization The RB issues licenses for Decommissioning The RB shall provide: Set of licensing guidance and procedures; Competent personnel for reviewing the application; Training for the personnel

Regulatory Issues Inspection/ Enforcement The RB conducts inspection and enforcement Set of inspection/enforcement guidelines and procedures Inspection plan and records Competent inspectors Training for the inspectors Financial resources

Regulatory Issues

Solutions

Release from control

The RB declare that the site is released from regulatory control

The RB shall provide:

- Set of guidelines and procedures for review the decommissioning and final survey report
- Independent verification
- Competent personnel
- Acceptance criteria for site release

International Atomic Energy Agency

Prioritization

- 1. Set of regulation and rules
- 2. Qualified, trained and experienced personnel (needed for all stages)
- 3. Acceptance criteria:
 - a) Characterization
 - **b)** Clearance Level
 - c) Site release
- 4. Licensing of decommissioning
- 5. Site release

International Atomic Energy Agency

References

- IAEA Technical Report Series No. 351, Planning and management for the decommissioning of RR and other small nuclear facilities.
- IAEA Safety Guides No. WS-G-2.1, Decommissioning of nuclear power plant and research reactor.
- IAEA Safety Guides No. RS-G-1.1, Occupational radiation protection.
- IAEA Technical Report Series No. 373, Decommissioning Techniques for research reactors
- IAEA Technical Report Series No. 411, Record keeping for the decommissioning of nuclear facilities: Guidelines and experiences.
- IAEA TECDOC No. 1394, Planning, managing and organising the decommissioning of nuclear facilities: Lessons learned.
- IAEA Safety Series No. 111-F, The principles of radwaste management.
- IAEA Safety requirement WS-R-2, Predesposal management of radioactive waste including decommissioning.
- IAEA Safety Series No. 111-G-1.1, Classification of radioactive waste.



Not Considered Factors

- Funding
- Future use of the site
- Time for completion
- Public information

