

GENERAL DESIGN CRITERIA TO FACILITATE THE DECOMMISSIONING OF NUCLEAR FACILITIES

			Paragraph	Page
CHAPTER	1	INTRODUCTION		
		Purpose	1-1	1-1
		Scope	1.2	1-1
		References	1-3	1-1
		Background	1-4	1-1
		Objective	1-5	1-1
CHAPTER	2.	DECOMMISSIONING METHOD		
		Decommissioning Methods	2-1	2-1
		Selection of Decommissioning Alternatives	2-2	2-1
		Standards for Acceptable Residual Radiation Levels, Concentrations, and Contamination	2-3	2-2
		Radiological Standards for On-site Contingency Storage	2-4	2-4
CHAPTER	3	DECONTAMINATION METHODS		
		Definition and Application	3-1	3-1
		Chemical Decontamination	3-2	3-1
		Mechanical Decontamination	3-3	3-2
		Selection of Decontamination Process in Support of a Decommissioning	3-4	3-3
CHAPTER	4	GENERAL CRITERIA AND DESIGN FEATURES TO ENHANCE DECOMMISSIONING		
		Site-Planning Criteria	4-1	4-1
		Conceptual Design Considerations	4-2	4-1
		Architectural and Structural Design Criteria	4-3	4-2
		Mechanical, Electrical, and Heating, Ventilating, and Air Conditioning Systems Design Criteria	4-4	4-3
		Radioactive Waste Handling	4-5	4-5
		Decontamination	4-6	4-5
		Fire Protection	4-7	4-6
CHAPTERS	5	CRITERIA FOR VARIOUS TYPES OF FACILITIES		
		General	5-1	5-1
		Power Reactor	5-2	5-1
		Research Reactors and Accelerators	5-3	5-1
		Radiographic FACILITIES	5-4	5-1
		FACILITIES for Depleted Uranium Munitions	5-5	5-2
		Research, Development, Testing and Medical Laboratory FACILITIES	5-6	5-2
CHAPTER	6	DECOMMISSIONING PLANS		
		Types of Plans	6-1	6-1
		Preliminary Plan	6-2	6-1
		Final Plan	6-3	6-2
		Approval Agencies	6-4	6-3
		Control of Deferred Decommissioned FACILITIES	6-5	6-3

	Paragraph	Page
APPENDIX A	REFERENCES	A-1
APPENDIX B	RADIOLOGICAL HAZARDS AND THEIR CONTROL	B-1
APPENDIX C	RADIOACTIVE SOURCE CONSIDERATIONS IN NUCLEAR FACILITY DESIGN	C-1
BIBLIOGRAPHY BIBLIOGRAPHY	1

List of Figures

Figure C-1	Th. Reduction in the Concentration of a Radionuclide Due to Radioactive Decay	C-2
C-2	Reduction due to Radioactive Decay in the Total Dose Rate from a Composite Radiation Source	C-3

List of Tables

Table 2-1	Acceptable Surface contamination Levels	2-5
-----------	---	-----