

SECTION 12

RADIATION PROTECTION

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
12.1	SHIELDING	12.1-1
12.1.1	Design Objectives	12.1-1
12.1.1.1	Primary Shielding	12.1-3
12.1.1.2	Secondary Shielding	12.1-3
12.1.1.3	Accident Shielding	12.1-4
12.1.1.4	Fuel Transfer Shielding	12.1-4
12.1.1.5	Auxiliary Shielding	12.1-4
12.1.2	Design Description	12.1-5
12.1.2.1	Primary Shielding	12.1-5
12.1.2.2	Secondary Shielding	12.1-5
12.1.2.3	Accident Shielding	12.1-6
12.1.2.4	Fuel Transfer Shielding	12.1-6
12.1.2.5	Auxiliary Shielding	12.1-8
12.1.3	Source Terms	12.1-8
12.1.3.1	Miscellaneous Materials	12.1-8
12.1.3.1.1	Primary and Secondary Neutron Sources	12.1-9
12.1.3.1.2	Primary Source Rod Assembly Data	12.1-9
12.1.3.1.3	Reactor Vessel Flux Dosimeters	12.1-10
12.1.3.1.4	Special Nuclear Materials (SNM)	12.1-11
12.1.3.1.5	Fuel and Fuel Handling	12.1-12
12.1.4	Area Monitoring and Radiation Surveys	12.1-13
12.1.5	Estimates of Exposure	12.1-14

TABLE OF CONTENTS (Cont)

<u>Section</u>	<u>Title</u>	<u>Page</u>
12.2	VENTILATION	12.2-1
12.2.1	Design Objectives	12.2-1
12.2.2	Design Description	12.2-1
12.2.2.1	Equipment Sizing	12.2-1
12.2.2.2	Filter Characteristics	12.2-2
12.2.2.3	Post Accident System Operation	12.2-2
12.2.3	Radiation Monitoring	12.2-2
12.3	RADIATION PROTECTION PROGRAM	12.3-1
12.3.1	Program Objectives	12.3-1
12.3.2	Organization	12.3-1
12.3.3	Facilities, Equipment and Instrumentation	12.3-2
12.3.3.1	Personnel Protective Equipment	12.3-2
12.3.3.2	Facilities	12.3-4
12.3.3.3	Area Control	12.3-5
12.3.4	Personnel Dosimetry	12.3-6
12.3.4.1	NVLAP Certified Dosimetry	12.3-7
12.3.4.2	Self-Reading Dosimeters	12.3-7
12.3.4.3	Administrative Exposure Control	12.3-8
12.3.5	Procedures	12.3-8
12.3.5.1	Departmental Procedures	12.3-8
12.3.5.2	Access Training	12.3-9
12.4	ALARA PROGRAM	12.4-1

## LIST OF TABLES

<u>Table</u>	<u>Title</u>
12.1-1	Shielding Design Zone Classifications
12.1-2	Secondary Shield Design Parameters
12.1-3	Accident Shield Design Parameters
12.1-4	Refueling Shield Design Parameters
12.1-5	Principal Auxiliary Shielding