TIER 1 MASTER TABLE OF CONTENTS

Section		Page
1.0	INTRODUCTION	
1.1	Definitions	1.0-1
1.2	General Provisions	1.0-3
1.3	Figure Legend	1.0-5
1.4	List of Acronyms and Abbreviations	1.0-9
2.0	SYSTEM BASED DESIGN DESCRIPTIONS AND ITAAC	
2.1	Reactor	
2.1.1	Fuel Handling and Refueling System	2.1.1-1
2.1.2	Reactor Coolant System	2.1.2-1
2.1.3	Reactor System	2.1.3-1
2.2	Nuclear Safety Systems	
2.2.1	Containment System	2.2.1-1
2.2.2	Passive Containment Cooling System	2.2.2-1
2.2.3	Passive Core Cooling System	2.2.3-1
2.2.4	Steam Generator System	2.2.4-1
2.2.5	Main Control Room Emergency Habitability System	2.2.5-1
2.3	Auxiliary Systems	
2.3.1	Component Cooling Water System	2.3.1-1
2.3.2	Chemical and Volume Control System	2.3.2-1
2.3.3	Standby Diesel and Auxiliary Boiler Fuel Oil System	2.3.3-1
2.3.4	Fire Protection System	2.3.4-1
2.3.5	Mechanical Handling System	2.3.5-1
2.3.6	Normal Residual Heat Removal System	2.3.6-1
2.3.7	Spent Fuel Pool Cooling System	2.3.7-1
2.3.8	Service Water System	2.3.8-1
2.3.9	Containment Hydrogen Control System	2.3.9-1
2.3.10	Liquid Radwaste System	2.3.10-1
2.3.11	Gaseous Radwaste System	2.3.11-1
2.3.12	Solid Radwaste System	2.3.12-1
2.3.13	Primary Sampling System	2.3.13-1
2.3.14	Demineralized Water Transfer and Storage System	2.3.14-1
2.3.15	Compressed and Instrument Air System	2.3.15-1
* 2.3.16	Potable Water System	2.3.16-1
2.3.17	Waste Water System	2.3.17-1
2.3.18	Plant Gas System	2.3.18-1
2.3.19	Communication System	2.3.19-1
2.3.20	Turbine Building Closed Cooling Water System	2.3.20-1
2.3.21	Secondary Sampling System	2.3.21-1

TIER 1 MASTER TABLE OF CONTENTS (cont.)

Section		Page
	2.3.22 Containment Leak Rate Test System	2.3.22-1
	2.3.23 This section intentionally blank	2.3.23-1
	2.3.24 Demineralized Water Treatment System	2.3.24-1
	2.3.25 Gravity and Roof Drain Collection System	2.3.25-1
	2.3.26 This section intentionally blank	2.3.26-1
	2.3.27 Sanitary Drainage System	2.3.27-1
	2.3.28 Turbine Island Vents, Drains, and Relief System	2.3.28-1
	2.3.29 Radioactive Waste Drain System	2.3.29-1
2.4	Steam and Power Conversion Systems	
	2.4.1 Main and Startup Feedwater System	2.4.1-1
	2.4.2 Main Turbine System	2.4.2-1
	2.4.3 Main Steam System	2.4.3-1
	2.4.4 Steam Generator Blowdown System	2.4.4-1
	2.4.5 Condenser Air Removal System	2.4.5-1
	2.4.6 Condensate System	2.4.6-1
	2.4.7 This section intentionally blank	2.4.7-1
	2.4.8 Auxiliary Steam Supply System	2.4.8-1
	2.4.9 Condenser Tube Cleaning System	2.4.9-1
	2.4.10 Turbine Island Chemical Feed System	2.4.10-1
	2.4.11 Condensate Polishing System	2.4.11-1
	2.4.12 Gland Seal System	2.4.12-1
	2.4.13 Generator Hydrogen and CO_2 System	2.4.13-1
	2.4.14 Heater Drain System	2.4.14-1
	2.4.15 Hydrogen Seal Oil System	2.4.15-1
	2.4.16 Main Turbine and Generator Lube Oil System	2.4.16-1
2.5	Instrumentation and Control Systems	
	2.5.1 Diverse Actuation System	2.5.1-1
	2.5.2 Protection and Safety Monitoring System	2.5.2-1
	2.5.3 Plant Control System	2.5.3-1
	2.5.4 Data Display and Processing System	2.5.4-1
	2.5.5 In-Core Instrumentation System	2.5.5-1
	2.5.6 Special Monitoring System	2.5.6-1
	2.5.7 Operation and Control Centers System	2.5.7-1
	2.5.8 Radiation Monitoring System	2.5.8-1
	2.5.9 Seismic Monitoring System	2.5.9-1
	2.5.10 Main Turbine Control and Diagnostic System	2.5.10-1
2.6	Electrical Power Systems	
	2.6.1 Main ac Power System	2.6.1-1
	2.6.2 Non-Class 1E dc and Uninterruptible Power Supply System	2.6.2-1

TIER 1 MASTER TABLE OF CONTENTS (cont.)

Section			Page
	2.6.3	Class 1E dc and Uninterruptible Power Supply System	2.6.3-1
	2.6.4	Onsite Standby Power System	2.6.4-1
	2.6.5	Lighting System	2.6.5-1
	2.6.6	Grounding and Lightning Protection System	2.6.6-1
	2.6.7	Special Process Heat Tracing System	2.6.7-1
	2.6.8	Cathodic Protection System	2.6.8-1
	2.6.9	Plant Security System	2.6.9-1
	2.6.10	Closed Circuit TV System	2.6.10-1
	2.6.11	Main Generation System	2.6.11-1
	2.6.12	Excitation and Voltage Regulation System	2.6.12-1
2.7	HVAC Systems		
	2.7.1	Nuclear Island Nonradioactive Ventilation System	2.7.1-1
	2.7.2	Central Chilled Water System	2.7.2-1
	2.7.3	Annex/Auxiliary Building Nonradioactive Ventilation System	2.7.3-1
	2.7.4	Diesel Generator Building Ventilation System	2.7.4-1
	2.7.5	Radiologically Controlled Area Ventilation System	2.7.5-1
	2.7.6	Containment Air Filtration System	2.7.6-1
	2.7.7	Containment Recirculation Cooling System	2.7.7-1
	2.7.8	Radwaste Building HVAC System	2.7.8-1
	2.7.9	Turbine Island Building Ventilation System	2.7.9-1
	2.7.10	Health Physics and Hot Machine Shop HVAC System	2.7.10-1
	2.7.11	Hot Water Heating System	2.7.11-1
3.0	NON-SYSTEM BASED DESIGN DESCRIPTIONS AND ITAAC		
3.1	Emergency Response Facilities		3.1-1
3.2	Human Factors Engineering		3.2-1
3.3	Buildings		3.3-1
3.4	Initial Test Program		3.4-1
3.5	Radiation Monitoring		3.5-1
3.6	Reactor Coolant Pressure Boundary Leak Detection		3.6-1
3.7	Design Reliability Assurance Program		3.7-1
4.0	INTERFACE REQUIREMENTS		4.0-1
5.0	SITE PARAMETERS		5.0-1

* Underlined sections - title only, no entry for Design Certification.

TIER 1 LIST OF FIGURES

Figure	Title	Page
2.1.2-1	Reactor Coolant System	2.1.2-30
2.1.3-1	Reactor Upper Internals Rod Guide Arrangement	2.1.3-13
2.1.3-2	Rod Cluster Control and Drive Rod Arrangement	2.1.3-14
2.1.3-3	Reactor Vessel Arrangement	2.1.3-15
2.2.1-1	Containment System	2.2.1-15
2.2.2-1	Passive Containment Cooling System	2.2.2-15
2.2.3-1	Passive Core Cooling System	2.2.3-28
2.2.4-1	Steam Generator System	2.2.4-22
2.2.5-1	Main Control Room Emergency Habitability System	2.2.5-16
2.3.1-1	Component Cooling Water System	2.3.1-5
2.3.2-1	Chemical and Volume Control System	2.3.2-15
2.3.3-1	Standby Diesel and Auxiliary Boiler Fuel Oil System	2.3.3-5
2.3.4-1	Fire Protection System (Seismic Piping)	2.3.4-6
2.3.6-1	Normal Residual Heat Removal System	2.3.6-17
2.3.7-1	Spent Fuel Pool Cooling System	2.3.7-7
2.3.8-1	Service Water System	2.3.8-5
2.3.10-1	Liquid Radwaste System	2.3.10-9
2.3.11-1	Gaseous Radwaste System	2.3.11-6
2.3.13-1	Primary Sampling System	2.3.13-8
2.3.29-1	Radioactive Waste Drain System	2.3.29-3
2.4.1-1	Main and Startup Feedwater System	2.4.1-4
2.5.2-1	Protection and Safety Monitoring System	2.5.2-19
2.6.1-1	Main ac Power System	2.6.1-11
2.6.2-1	Non-Class 1E dc and Uninterruptible Power Supply System	2.6.2-4
2.6.3-1	Class 1E dc and Uninterruptible Power Supply System (Division A)	2.6.3-16
2.7.1-1	Nuclear Island Nonradioactive Ventilation System	2.7.1-11
2.7.2-1	Central Chilled Water System	2.7.2-5
2.7.3-1	Annex/Auxiliary Building Nonradioactive Ventilation System	2.7.3-5
2.7.4-1	Diesel Generator Building Ventilation System	2.7.4-5
2.7.6-1	Containment Air Filtration System	2.7.6-5
3.2-1	Human Factors Engineering (HFE) Design and Implementation Process	3.2-11
3.3-1	Nuclear Island Section A-A	3.3-27
3.3-2	Nuclear Island Section B-B	3.3-29
3.3-3	Nuclear Island Plan View at Elevation 66'-6"	3.3-31
3.3-4	Nuclear Island Plan View at Elevation 82'-6"	3.3-35
3.3-5	Nuclear Island Plan View at Elevation 96'-6"	3.7-37
3.3-6	Nuclear Island Plan View at Elevation 100'-0"	3.3-39
3.3-7	Nuclear Island Plan View at Elevation 117'-6"	3.3-41
3.3-8	Nuclear Island Plan View at Elevation 135'-3"	3.3-43
3.3-9	Nuclear Island Plan View at Elevation 153'-3" & 160'-6"	3.3-45
3.3-10	Nuclear Island Plan View at Shield Building Roof	3.3-47
3.3-11	Annex Building Plan View at Elevation 100'-0"	3.3-49
3.3-12	Annex Building Plan View at Elevation 117'-6"	3.3-51

TIER 1 LIST OF FIGURES (cont.)

Figure	Title	Page
3.3-13	Annex Building Plan View at Elevation 135'-3"	3.3-53
3.3-14	Nuclear Island Structures Dimension at Elevation 66'-6"	3.3-55
5.0-1	Horizontal Design Response Spectra Safe Shutdown Earthquake	5.0-4
5.0-2	Vertical Design Response Spectra Safe Shutdown Earthquake	5.0-5
5.0-3	Free-Field Motions at Foundation Level (40 ft. Depth) Envelope of Horizontal Motions	5.0-6
5.0-4	Free-Field Motions at Foundation Level (40 ft. Depth) Envelope of Vertical Motions	5.0-7