

TABLE OF CONTENTS

1.0	USE AND APPLICATION	1.1-1
1.1	Definitions	1.1-1
1.2	Logical Connectors	1.2-1
1.3	Completion Times	1.3-1
1.4	Frequency	1.4-1
2.0	SAFETY LIMITS (SLs)	2.0-1
2.1	SLs	2.0-1
2.2	SL Violations	2.0-1
3.0	LIMITING CONDITION FOR OPERATION (LCO) APPLICABILITY	3.0-1
3.0	SURVEILLANCE REQUIREMENT (SR) APPLICABILITY	3.0-4
3.1	REACTIVITY CONTROL SYSTEMS	3.1-1
3.1.1	SHUTDOWN MARGIN (SDM)	3.1-1
3.1.2	Core Reactivity	3.1-2
3.1.3	Moderator Temperature Coefficient (MTC)	3.1-4
3.1.4	Rod Group Alignment Limits	3.1-7
3.1.5	Shutdown Bank Insertion Limits	3.1-11
3.1.6	Control Bank Insertion Limits	3.1-13
3.1.7	Rod Position Indication	3.1-16
3.1.8	PHYSICS TESTS Exceptions - MODE 2	3.1-19
3.1.9	RCS Boron Limitations < 500°F	3.1-22
3.2	POWER DISTRIBUTION LIMITS	3.2-1
3.2.1	Heat Flux Hot Channel Factor ($F_Q(Z)$)(F_Q Methodology)	3.2-1
3.2.2	Nuclear Enthalpy Rise Hot Channel Factor ()	3.2-6
3.2.3	AXIAL FLUX DIFFERENCE (AFD) (Relaxed Axial Offset Control (RAOC) Methodology)	3.2-9
3.2.4	QUADRANT POWER TILT RATIO (QPTR)	3.2-10
3.3	INSTRUMENTATION	3.3-1
3.3.1	Reactor Trip System (RTS) Instrumentation	3.3-1
3.3.2	Engineered Safety Feature Actuation System (ESFAS) Instrumentation	3.3-27
3.3.3	Post Accident Monitoring (PAM) Instrumentation	3.3-51
3.3.4	Remote Shutdown System	3.3-56

TABLE OF CONTENTS

3.3	INSTRUMENTATION (continued)	
3.3.5	Loss of Power (LOP) Diesel Generator (DG) Start Instrumentation	3.3-59
3.3.6	Containment Purge Isolation Instrumentation	3.3-61
3.3.7	Control Room Emergency Ventilation System (CREVS) Actuation Instrumentation	3.3-67
3.3.8	Emergency Exhaust System (EES) Actuation Instrumentation	3.3-73
3.3.9	Boron Dilution Mitigation System (BDMS)	3.3-79
3.4	REACTOR COOLANT SYSTEM (RCS)	3.4-1
3.4.1	RCS Pressure, Temperature, and Flow Departure from Nucleate Boiling (DNB) Limits	3.4-1
3.4.2	RCS Minimum Temperature for Criticality	3.4-3
3.4.3	RCS Pressure and Temperature (P/T) Limits	3.4-4
3.4.4	RCS Loops - MODES 1 and 2	3.4-6
3.4.5	RCS Loops - MODE 3	3.4-7
3.4.6	RCS Loops - MODE 4	3.4-10
3.4.7	RCS Loops - MODE 5, Loops Filled	3.4-13
3.4.8	RCS Loops - MODE 5, Loops Not Filled	3.4-16
3.4.9	Pressurizer	3.4-18
3.4.10	Pressurizer Safety Valves	3.4-20
3.4.11	Pressurizer Power Operated Relief Valves (PORVs)	3.4-22
3.4.12	Cold Overpressure Mitigation System (COMS)	3.4-26
3.4.13	RCS Operational LEAKAGE	3.4-31
3.4.14	RCS Pressure Isolation Valve (PIV) Leakage	3.4-33
3.4.15	RCS Leakage Detection Instrumentation	3.4-37
3.4.16	RCS Specific Activity	3.4-41
3.4.17	Steam Generator (SG) Tube Integrity	3.4-44
3.5	EMERGENCY CORE COOLING SYSTEMS (ECCS)	3.5-1
3.5.1	Accumulators	3.5-1
3.5.2	ECCS - Operating	3.5-4
3.5.3	ECCS - Shutdown	3.5-7
3.5.4	Refueling Water Storage Tank (RWST)	3.5-9
3.5.5	Seal Injection Flow	3.5-11
3.6	CONTAINMENT SYSTEMS	3.6-1
3.6.1	Containment	3.6-1
3.6.2	Containment Air Locks	3.6-3
3.6.3	Containment Isolation Valves	3.6-7

TABLE OF CONTENTS

3.6	CONTAINMENT SYSTEMS (continued)	
3.6.4	Containment Pressure	3.6-16
3.6.5	Containment Air Temperature	3.6-17
3.6.6	Containment Spray and Cooling Systems	3.6-18
3.6.7	Recirculation Fluid pH Control (RFPC) System	3.6-22
3.7	PLANT SYSTEMS	3.7-1
3.7.1	Main Steam Safety Valves (MSSVs)	3.7-1
3.7.2	Main Steam Isolation Valves (MSIVs), Main Steam Isolation Valve Bypass Valves (MSIVBVs), and Main Steam Low Point Drain Isolation Valves (MSLPDIVs)	3.7-5
3.7.3	Main Feedwater Isolation Valves (MFIVs), Main Feedwater Regulating Valves (MFRVs), and Main Feedwater Regulating Valve Bypass Valves (MFRVBVs)	3.7-9
3.7.4	Atmospheric Steam Dump Valves (ASDs)	3.7-12
3.7.5	Auxiliary Feedwater (AFW) System	3.7-15
3.7.6	Condensate Storage Tank (CST)	3.7-19
3.7.7	Component Cooling Water (CCW) System	3.7-21
3.7.8	Essential Service Water System (ESW)	3.7-23
3.7.9	Ultimate Heat Sink (UHS)	3.7-26
3.7.10	Control Room Emergency Ventilation System (CREVS)	3.7-28
3.7.11	Control Room Air Conditioning System (CRACS)	3.7-32
3.7.12	Not Used.	3.7-35
3.7.13	Emergency Exhaust System (EES)	3.7-36
3.7.14	Not Used.	3.7-39
3.7.15	Fuel Storage Pool Water Level	3.7-40
3.7.16	Fuel Storage Pool Boron Concentration	3.7-41
3.7.17	Spent Fuel Assembly Storage	3.7-43
3.7.18	Secondary Specific Activity	3.7-45
3.7.19	Secondary System Isolation Valves (SSIVs)	3.7-46
3.7.20	Class 1E Electrical Equipment Air Conditioning (A/C) System	3.7-48
3.8	ELECTRICAL POWER SYSTEMS	3.8-1
3.8.1	AC Sources - Operating	3.8-1
3.8.2	AC Sources - Shutdown	3.8-18
3.8.3	Diesel Fuel Oil, Lube Oil, and Starting Air	3.8-22
3.8.4	DC Sources - Operating	3.8-25
3.8.5	DC Sources - Shutdown	3.8-28
3.8.6	Battery Cell Parameters	3.8-30
3.8.7	Inverters - Operating	3.8-34
3.8.8	Inverters - Shutdown	3.8-36
3.8.9	Distribution Systems - Operating	3.8-38

TABLE OF CONTENTS

3.8	ELECTRICAL POWER SYSTEMS (continued)	
3.8.10	Distribution Systems - Shutdown	3.8-40
3.9	REFUELING OPERATIONS	3.9-1
3.9.1	Boron Concentration	3.9-1
3.9.2	Unborated Water Source Isolation Valves	3.9-3
3.9.3	Nuclear Instrumentation	3.9-5
3.9.4	Containment Penetrations	3.9-7
3.9.5	Residual Heat Removal (RHR) and Coolant Circulation - High Water Level	3.9-9
3.9.6	Residual Heat Removal (RHR) and Coolant Circulation - Low Water Level	3.9-11
3.9.7	Refueling Pool Water Level	3.9-14
4.0	DESIGN FEATURES	4.0-1
4.1	Site Location	4.0-1
4.2	Reactor Core	4.0-1
4.3	Fuel Storage	4.0-1
5.0	ADMINISTRATIVE CONTROLS	5.0-1
5.1	Responsibility	5.0-1
5.2	Organization	5.0-2
5.3	Unit Staff Qualifications	5.0-4
5.4	Procedures	5.0-5
5.5	Programs and Manuals	5.0-6
5.6	Reporting Requirements	5.0-23
5.7	High Radiation Area	5.0-28