

TABLE OF CONTENTS
SAMPLE

Section	Title	Page
	LIST OF CONTRIBUTORS	i
	REVISION HISTORY	ii
	TABLE OF CONTENTS.....	iii
	LIST OF TABLES.....	v
	LIST OF FIGURES	v
	ACRONYMS AND TRADEMARKS.....	vi
	GLOSSARY OF TERMS	vii
	REFERENCES	viii
Section 1	SPECIFICATIONS.....	1-1
1.1	EQUIPMENT IDENTIFICATION	1-1
1.2	INSTALLATION REQUIREMENTS.....	1-1
1.3	ELECTRICAL REQUIREMENTS.....	1-1
1.4	AUXILIARY DEVICES	1-1
1.5	PREVENTATIVE MAINTENANCE	1-1
1.6	SAFETY FUNCTIONS	1-1
1.7	PERFORMANCE REQUIREMENTS ^(a)	1-2
1.8	ENVIRONMENTAL CONDITIONS ^(a)	1-2
Section 2	QUALIFICATION PROGRAM.....	2-1
2.1	PROGRAM OBJECTIVE	2-1
Section 3	QUALIFICATION TEST (TEST PLAN AND SUMMARY).....	3-1
3.1	SPECIMEN DESCRIPTION.....	3-1
3.2	NUMBER TESTED	3-1
3.3	MOUNTING.....	3-1
3.4	CONNECTIONS	3-1
3.5	TEST SEQUENCE PREFERRED	3-1
3.6	TEST SEQUENCE ACTUAL.....	3-1
3.7	SERVICE CONDITIONS TO BE SIMULATED BY TEST ^(a)	3-1
3.8	MEASURED VARIABLES	3-1
3.9	TYPE TEST SUMMARY	3-3
3.9.1	Normal Environment Testing	3-3
3.9.2	Abnormal Environment Testing	3-3
3.9.3	Aging Simulation Procedure.....	3-3
3.9.3.1	Design Life	3-3
3.9.3.2	Shelf Life	3-4
3.9.3.3	Thermal Aging.....	3-4
3.9.3.4	Radiation Aging.....	3-4

3.9.3.5	Operating Cycles.....	3-4
3.9.3.6	Vibration Aging	3-4
3.9.4	Seismic Tests	3-4
3.9.5	High Energy Line Break/Post HELB Simulation	3-4
Section 4	QUALIFICATION BY ANALYSIS	4-6
4.1	{ANALYSIS TITLE HERE}	4-6
4.1.1	Characteristic Analyzed	4-6
4.1.2	Equipment Specification(s).....	4-6
4.1.3	Methods and Codes.....	4-6
4.1.4	Acceptance Criteria.....	4-6
4.1.5	Model	4-6
4.1.6	Assumptions and Justifications	4-6
4.1.7	Impact to Safety Function	4-6
4.1.8	Conclusions.....	4-6
4.2	ENVIRONMENTAL QUALIFICATION FOR {EQUIPMENT NAME HERE}	4-7
4.2.1	Equipment Identification	4-7
4.2.2	Safety Related Functions	4-7
4.2.3	Component Acceptance Criteria	4-7
4.2.4	Service Conditions	4-7
4.2.5	Potential Failure Modes	4-7
4.2.6	Identification of Environmental Effects on Material Properties	4-7
4.2.6.1	Perform Thermal Aging Analysis	4-7
4.2.6.2	Evaluate the Environmental Effects on Equipment Safety-Related Function	4-8
4.2.7	Conclusions.....	4-8
4.2.8	EQ Maintenance Requirements	4-8
Section 5	QUALIFICATION PROGRAM CONCLUSIONS	5-1
5.1	AGING	5-1
5.2	DBE QUALIFICATIONS	5-1
5.3	PROGRAM CONCLUSIONS.....	5-1

TABLE OF CONTENTS
SAMPLE

Section	Title	Page
	LIST OF CONTRIBUTORS	i
	REVISION HISTORY	ii
	TABLE OF CONTENTS.....	iii
	LIST OF TABLES.....	v
	LIST OF FIGURES	vi
	ACRONYMS AND TRADEMARKS.....	vii
	GLOSSARY OF TERMS	vii
	REFERENCES	viii
SECTION 1	INTRODUCTION	1-1
SECTION 2	EQUIPMENT TO BE QUALIFIED.....	2-1
2.1	EQUIPMENT DESCRIPTION	2-1
2.2	EQUIPMENT IDENTIFICATION	2-1
2.2.1	Plant-Specific Units	2-1
2.2.2	Electrical and Physical Interface/Boundary Conditions	2-1
2.2.3	Electrical Requirements	2-1
2.2.4	Auxiliary Devices	2-1
2.2.4.1	Electrical Connectors	2-1
2.2.4.2	Actuator	2-1
2.2.4.3	Position Indication Device.....	2-1
2.3	EQUIPMENT PERFORMANCE SPECIFICATION	2-1
2.3.1	Safety Function	2-1
2.3.2	Performance Specifications and Acceptance Requirements	2-2
2.4	EQUIPMENT QUALIFICATION REQUIREMENTS.....	2-2
2.4.1	Environmental Requirements.....	2-2
2.4.1.1	Normal Operating Environment	2-2
2.4.1.2	Abnormal Operating Environment	2-5
2.4.1.3	DBA/Post-DBA Environment	2-12
2.4.2	Seismic Requirements.....	2-20
2.4.3	Electromagnetic Compatibility Requirements.....	2-25
2.4.4	ASME QME-1 Functional Capability Requirements	2-32
2.5	QUALIFICATION PROGRAM.....	2-32
SECTION 3	TYPE TESTING PERFORMED.....	3-1
3.1	GENERAL DISCUSSION	3-1
3.2	{TYPE TEST NAME HERE}	3-1
3.2.1	Equipment Tested	3-1
3.2.2	Description of Test Facility and Test Procedure.....	3-1
3.2.3	Test Results.....	3-1

3.2.4	Test Anomalies	3-2
3.3	{TYPE TEST NAME HERE}	3-3
3.3.1	Equipment Tested	3-3
3.3.2	Description of Test Facility and Test Procedure.....	3-3
3.3.3	Test Results.....	3-3
3.3.4	Test Anomalies	3-3
SECTION 4	ANALYSIS PERFORMED.....	4-1
4.1	GENERAL DISCUSSION	4-1
4.2	{ANALYSIS NAME HERE}	4-1
4.3	{ANALYSIS NAME HERE}	4-1
SECTION 5	QUALIFICATION BASIS	5-1
5.1	QUALIFICATION BASIS	5-1
5.2	STATEMENT OF EQUIPMENT LIFE	5-3
5.2.1	Qualified/Design Life	5-3
5.2.2	Operating Cycles.....	5-3
SECTION 6	INSTALLATION REQUIREMENTS AND MAINTENANCE, SURVEILLANCE, AND REPLACEMENT PROGRAM.....	6-1
6.1	INSTALLATION LIMITATIONS.....	6-1
6.2	MAINTENANCE, SURVEILLANCE, AND REPLACEMENT PROGRAM.....	6-1
SECTION 7	SUMMARY AND CONCLUSIONS	7-1
APPENDIX A	ACRONYMS.....	A-1
APPENDIX B	GLOSSARY OF TERMS.....	B-1
