

TABLE OF CONTENTS

CHAPTER 1	INTRODUCTION AND GENERAL DISCUSSION	
SECTION 1.1	INTRODUCTION.....	1
SECTION 1.5	SUMMARY OF PRINCIPAL REVIEW MATTERS	5
CHAPTER 2	SITE CHARACTERISTICS	
SECTION 2.3	METEOROLOGY.....	1
SECTION 2.3.1	REGIONAL CLIMATORLOGY.....	1
2.3.1.1	Regulatory Criteria	1
2.3.1.2	Summary of Technical Information	2
2.3.1.3	Technical Evaluation	2
2.3.1.4	Conclusion	4
SECTION 2.5	GEOLOGICAL, SEISMOLOGICAL, AND GEOTECHNICAL ENGINEERING.....	1
2.3.5.1	Regulatory Criteria	1
2.3.5.2	Summary of Technical Information	2
2.3.5.3	Technical Evaluation	3
2.3.5.4	Conclusion	5
SECTION 2.6.2	WATER LEVEL (FLOOD) DESIGN SITE PARAMETERS.....	1
2.6.2.1	Regulatory Criteria	1
2.6.2.2	Summary of Technical Information	2
2.6.2.3	Technical Evaluation	2
2.6.2.4	Conclusion	2
SECTION 2.6.8	REQUIREMENTS FOR DETERMINATION OF ABWR SITE ACCEPTABILITY .	1
2.6.8.1	Regulatory Criteria	1
2.6.8.2	Summary of Technical Information	2
2.6.8.3	Technical Evaluation	2
2.6.8.4	Conclusion	3
CHAPTER 3	DESIGN OF STRUCTURES, COMPONENTS, EQUIPMENT, AND SYSTEMS	
SECTION 3.2.3	SAFETY CLASSIFICATIONS.....	1
SECTION 3.3	WIND AND TORNADO LOADINGS.....	1
3.3.1	Regulatory Criteria	1
3.3.2	Summary of Technical Information.....	2
3.3.3	Technical Evaluation	2
3.3.4	Conclusion	4
SECTION 3.5.1.4	MISSILES GENERATED BY NATURAL PHENOMENA	1
3.5.1.4.1	Regulatory Criteria.....	1
3.5.1.4.2	Summary of Technical Information	2
3.5.1.4.3	Technical Evaluation	3
3.5.1.4.4	Conclusion.....	4
SECTION 3.7.3	SEISMIC SUBSYSTEM ANALYSIS	1
3.7.3.1	Regulatory Criteria.....	1
3.7.3.2	Summary of Technical Information	2
3.7.3.3	Technical Evaluation	2
3.7.3.4	Conclusion.....	3

CHAPTER 4 REACTOR

SECTION 4.2 FUEL SYSTEM DESIGN 1
4.2.1 Regulatory Criteria..... 1
4.2.2 Summary of Technical Information 2
4.2.3 Technical Evaluation..... 2
4.2.4 Conclusions 3

CHAPTER 5 ..REACTOR COOLANT SYSTEM AND CONNECTED SYSTEMS

SECTION 5.2.5 REACTOR COOLANT PRESSURE BOUNDARY LEAKAGE DETECTION 1
5.2.5.1 Regulatory Criteria..... 1
5.2.5.2 Summary of Technical Information 2
5.2.5.3 Technical Evaluation..... 3
5.2.5.4 Conclusion..... 3

SECTION 5.4.7 RESIDUAL HEAT REMOVAL SYSTEM 1
5.4.7.1 Regulatory Criteria..... *Error! Bookmark not defined.*
5.4.7.2 Summary of Technical Information 2
5.4.7.3 Technical Evaluation..... 3
5.4.7.4 Conclusion..... 3

SECTION 5.4.7.1.10 AC-INDEPENDENT WATER ADDITION MODE..... 1
5.4.7.1.10.1 Regulatory Criteria..... 1
5.4.7.1.10.2 Summary of Technical Information 3
5.4.7.1.10.3 Technical Evaluation 4
5.4.7.1.10.4 Conclusion 6

SECTION 5.4.8 REACTOR WATER CLEANUP SYSTEM..... 1
5.4.8.1 Regulatory Criteria..... 1
5.4.8.2 Summary of Technical Information 2
5.4.8.3 Technical Evaluation..... 3
5.4.8.4 Conclusion..... 6

CHAPTER 6 ENGINEERED SAFETY FEATURES

SECTION 6.2.1.3 A SHORT-TERM PRESSURE RESPONSE 1
6.2.1.3.1 Regulatory Criteria..... 1
6.2.1.3.2 Summary of Technical Information 2
6.2.1.3.3 Technical Evaluation..... 3
6.2.1.3.4 Conclusion 12

SECTION 6.2.1.6 SUPPRESSION POOL DYNAMIC LOADS..... 1
6.2.1.6.1 Regulatory Criteria..... 1
6.2.1.6.2 Summary of Technical Information 2
6.2.1.6.3 Technical Evaluation..... 2
6.2.1.6.4 Conclusion..... 4

SECTION 6.2.1.9 CONTAINMENT DEBRIS PROTECTION FOR ECCS STRAINERS..... 1
6.2.1.9.1 Regulatory Criteria..... 1
6.2.1.9.2 Summary of Technical Information 3
6.2.1.9.3 Technical Evaluation..... 5
6.2.1.9.4 Conclusion..... 28

SECTION 6.3 EMERGENCY CORE COOLING SYSTEMS 1
6.3.1 Regulatory Criteria..... 1
6.3.2 Summary of Technical Information 2
6.3.3 Technical Evaluation..... 6
6.3.4 Conclusion..... 10

CHAPTER 7 INSTRUMENTATION AND CONTROL SYSTEMS

SECTION 7.4.1.4.4 SHUTDOWN PANEL 1
7.4.1.4.4.1 *Regulatory Criteria*..... 1
7.4.1.4.4.2 *Summary of Technical Information* 2
7.4.1.4.4.3 *Technical Evaluation* 2
7.4.1.4.4.4 *Conclusion*..... 4
SECTION 7.5.2.1 POST ACCIDENT MONITORING SYSTEM..... 1
SECTION 7.7.1.2.1 CONTROL ROD GANGED WITHDRAWAL SEQUENCE RESTRICTIONS 1
7.7.1.2.1.1 *Regulatory Criteria*..... 1
7.7.1.2.1.2 *Summary of Technical Information* 2
7.7.1.2.1.3 *Technical Evaluation* 2
7.7.1.2.1.4 *Conclusion*..... 3

CHAPTER 8 ELECTRICAL POWER

SECTION 8.2.5 NRC BULLETIN 2012-01: DESIGN VULNERABILITY IN ELECTRIC POWER SYSTEM..... 1
8.2.5.1 *Regulatory Criteria*..... 1
8.2.5.2 *Summary of Technical Information* 2
8.2.5.3 *Technical Evaluation* 3
8.2.5.4 *Conclusion*..... 6
SECTION 8.3.3.17 NRC BULLETIN 2012-01: DESIGN VULNERABILITY IN ELECTRIC POWER SYSTEM 6
8.2.5.1 *Regulatory Criteria*..... 6
8.2.5.2 *Summary of Technical Information* 8
8.2.5.3 *Technical Evaluation* 8
8.2.5.4 *Conclusion* 12
SECTION 8.3.4.4 ISOLATION BETWEEN CLASS 1E BUSES AND LOADS DESIGNATED AS NON-CLASS 1E
8.3.4.4.1 *Regulatory Criteria*..... 1
8.3.4.4.2 *Summary of Technical Information* 2
8.3.4.4.3 *Technical Evaluation* 3
8.3.4.4.4 *Conclusion*..... 4

CHAPTER 9 AUXILIARY SYSTEMS

SECTION 9.1.1 NEW FUEL STORAGE 1
9.1.1.1 *Regulatory Criteria*..... 1
9.1.1.2 *Summary of Technical Information* 2
9.1.1.3 *Technical Evaluation* 3
9.1.1.4 *Conclusion*..... 3
SECTION 9.1.2.1 NEW AND SPENT FUEL STORAGE..... 1
9.1.2.1.1 *Regulatory Criteria*..... 1
9.1.2.1.2 *Summary of Technical Information* 2
9.1.2.1.3 *Technical Evaluation* 3
9.1.2.1.4 *Conclusions* 4
SECTION 9.1.2.2 FUEL RACKS 1
9.1.2.2.1 *Regulatory Criteria*..... 1
9.1.2.2.2 *Summary of Technical Information* 2
9.1.2.2.3 *Technical Evaluation* 2
9.1.2.2.4 *Conclusion* 3
SECTION 9.1.3 FUEL POOL COOLING AND CLEANUP SYSTEM..... 1

CHAPTER 9AUXILIARY SYSTEMS CONT.

SECTION 9.1.4 LIGHT LOAD-HANDLING SYSTEM (RELATED TO REFUELING)..... 1
 9.1.4.1 Regulatory Criteria..... 1
 9.1.4.2 Summary of Technical Information 2
 9.1.4.3 Technical Evaluation 2
 9.1.1.4 Conclusion..... 3
SECTION 9.1.5 OVERHEAD HEAVY LOAD HANDLING SYSTEMS 1
 9.1.5.1 Regulatory Criteria..... 1
 9.1.5.2 Summary of Technical Information 2
 9.1.5.3 Technical Evaluation 4
 9.1.5.4 Conclusion..... 4
SECTION 9.5.1 FIRE PROTECTION SYSTEM..... 1
 9.5.1.1 Regulatory Criteria..... 1
 9.5.1.2 Summary of Technical Information 2
 9.5.1.3 Technical Evaluation 2
 9.5.1.4 Conclusion..... 3

CHAPTER 11 RADIOACTIVE WASTE MANAGEMENT

SECTION 11.4 SOLID WASTE MANAGMENT SYSTEMS 1
 11.4.1 Regulatory Criteria..... 1
 11.4.2 Summary of Technical Information 2
 11.4.3 Technical Evaluation 3
 11.4.4 Conclusion..... 3

CHAPTER 12 RADIATION PROTECTION

SECTION 12.2 RADIATION SOURCES 1
 12.2.1 Regulatory Criteria..... 1
 12.2.2 Summary of Technical Information 3
 12.2.3 Technical Evaluation 4
 12.2.4 Conclusion..... 8
SECTION 12.3 RADIATION PROTECTION DESIGN FEATURES 1
 12.3.1 Regulatory Criteria..... 1
 12.3.2 Summary of Technical Information2 2
 12.3.3 Technical Evaluation 2
 12.3.4 Conclusion..... 5

CHAPTER 13CONDUCT OF OPERATIONS

SECTION 13.3 EMERGENCY PLANNING 1
 13.3.1 Regulatory Criteria..... 1
 13.3.2 Summary of Technical Information 3
 13.3.3 Technical Evaluation 3
 13.3.4 Conclusion..... 10
SECTION 13.5 PLANT PROCEDURES 1
 13.5.1 Regulatory Criteria..... 1
 13.5.2 Summary of Technical Information 2
 13.5.3 Technical Evaluation 2
 13.5.4 Conclusion..... 3

CHAPTER 14 INITIAL TEST PROGRAM

SECTION 14.3.2.3.6 STRUCTURAL TASK GROUP REVIEW 1
 14.3.2.3.6.1 *Regulatory Criteria*..... 1
 14.3.2.3.6.2 *Summary of Technical Information* 2
 14.3.2.3.6.3 *Technical Evaluation*..... 2
 14.3.2.3.6.4 *Conclusion*..... 3
SECTION 14.3.2.3.8 VERIFICATION OF AS-BUILT COMPONENTS..... 3
 14.3.2.3.8.1 *Regulatory Criteria*..... 3
 14.3.2.3.8.2 *Summary of Technical Information* 4
 14.3.2.3.8.3 *Technical Evaluation*..... 4
 14.3.2.3.6.8 *Conclusion*..... 4

CHAPTER 16 TECHNICAL SPECIFICATIONS

16.0 TECHNICAL SPECIFICATIONS 1
 16.1 *Regulatory Criteria*..... 1
 16.2 *Summary of Technical Information* 2
 16.3 *Technical Evaluation*..... 3
 16.4 *Conclusion*..... 6

CHAPTER 19 SEVERE ACCIDENTS

SECTION 19.1 PROBABILISTIC RISK ASSESSMENT..... 1
 19.1.1 *Regulatory Criteria*..... 1
 19.1.2 *Summary of Technical Information* 2
 19.1.3 *Technical Evaluation*..... 2
 19.1.4 *Conclusion*..... 3
SECTION 19.2.3.3.4 ABWR CONTAINMENT VENT DESIGN 1
 19.2.3.3.4.1 *Regulatory Criteria*..... 1
 19.2.3.3.4.2 *Summary of Technical Information* 2
 19.2.3.3.4.3 *Technical Evaluation*..... 2
 19.2.3.3.4.4 *Conclusion*..... 4
SECTION 19.5 AIRCRAFT IMPACT ASSESSMENT..... 1
 19.5.1 *Regulatory Criteria*..... 1
 19.5.2 *Summary of Technical Information* 2
 19.5.3 *Technical Evaluation*..... 6
 19.5.4 *Conclusion*..... 19

**CHAPTER 22. ENHANCEMENTS RESULTING FROM FUKUSHIMA
NEAR TERM TASK FORCE RECOMMENDATIONS**

**SECTION 22.1 MITIGATION STRATEGIES FOR BEYOND-DESIGN-BASIS EXTERNAL
EVENTS 2**
SECTION 22.2 RELIABLE SPENT FUEL POOL INSTRUMENTATION 5
 22.2.1 *Regulatory Criteria*..... 6
 22.2.2 *Summary of Technical Information* 7
 22.2.3 *Technical Evaluation*..... 8
 22.2.4 *Conclusion*..... 14
SECTION 22.3 EMERGENCY PREPAREDNESS..... 14