

**CHAPTER 19****ENVIRONMENTAL REVIEW****Table of Contents**

<u>Section</u>	<u>Title</u>	<u>Page</u>
19.1	INTRODUCTION OF THE ENVIRONMENTAL REPORT .....	19.1-1
19.1.1	PURPOSE AND NEED FOR THE PROPOSED ACTION .....	19.1-1
19.1.2	REGULATORY PROVISIONS, PERMITS, AND REQUIRED CONSULTATIONS.....	19.1-3
19.2	PROPOSED ACTION .....	19.2-1
19.2.1	SITE LOCATION AND LAYOUT .....	19.2-6
19.2.2	RADIOISOTOPE FACILITY DESCRIPTION.....	19.2-11
19.2.3	WATER CONSUMPTION AND TREATMENT .....	19.2-12
19.2.4	COOLING AND HEATING DISSIPATION SYSTEMS.....	19.2-13
19.2.5	WASTE SYSTEMS .....	19.2-14
19.2.6	STORAGE, TREATMENT, AND TRANSPORTATION OF RADIOACTIVE AND NONRADIOACTIVE MATERIALS, INCLUDING LEU, WASTE, RADIOISOTOPES, AND ANY OTHER MATERIALS.....	19.7-21
19.3	DESCRIPTION OF THE AFFECTED ENVIRONMENT.....	19.3-1
19.3.1	LAND USE AND VISUAL RESOURCES .....	19.3-1
19.3.2	AIR QUALITY AND NOISE .....	19.3-9
19.3.3	GEOLOGIC ENVIRONMENT .....	19.3-65
19.3.4	WATER RESOURCES.....	19.3-71
19.3.5	ECOLOGICAL RESOURCES .....	19.3-96
19.3.6	HISTORIC AND CULTURAL RESOURCES.....	19.3-120
19.3.7	SOCIOECONOMICS .....	19.3-134
19.3.8	HUMAN HEALTH.....	19.3-164
19.4	IMPACTS OF PROPOSED CONSTRUCTION, OPERATIONS, AND DECOMMISSIONING .....	19.4-1
19.4.1	LAND USE AND VISUAL RESOURCES .....	19.4-1
19.4.2	AIR QUALITY AND NOISE .....	19.4-6
19.4.3	GEOLOGIC ENVIRONMENT .....	19.4-31
19.4.4	WATER RESOURCES.....	19.4-34
19.4.5	ECOLOGICAL RESOURCES .....	19.4-40

### Table of Contents (cont'd)

<u>Section</u>	<u>Title</u>	<u>Page</u>
19.4.6	HISTORIC AND CULTURAL RESOURCES.....	19.4-49
19.4.7	SOCIOECONOMICS .....	19.4-50
19.4.8	HUMAN HEALTH.....	19.4-61
19.4.9	WASTE MANAGEMENT.....	19.4-81
19.4.10	TRANSPORTATION .....	19.4-83
19.4.11	POSTULATED ACCIDENTS .....	19.4-92
19.4.12	ENVIRONMENTAL JUSTICE .....	19.4-105
19.4.13	CUMULATIVE EFFECTS.....	19.4-112
19.5	ALTERNATIVES .....	19.5-1
19.5.1	NO-ACTION ALTERNATIVE .....	19.5-1
19.5.2	REASONABLE ALTERNATIVES.....	19.5-2
19.5.3	COST-BENEFIT OF THE ALTERNATIVES.....	19.5-72
19.5.4	COMPARISON OF THE POTENTIAL ENVIRONMENTAL IMPACTS.....	19.5-93
19.6	CONCLUSIONS.....	19.6-1
19.6.1	UNAVOIDABLE ADVERSE ENVIRONMENTAL IMPACTS.....	19.6-1
19.6.2	RELATIONSHIP BETWEEN SHORT-TERM USES AND LONG-TERM PRODUCTIVITY OF THE ENVIRONMENT .....	19.6-13
19.6.3	IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF RESOURCES .....	19.6-15
19.7	REFERENCES.....	19.7-1
19.7.1	INTRODUCTION OF THE ENVIRONMENTAL REVIEW .....	19.7-1
19.7.2	PROPOSED ACTION .....	19.7-2
19.7.3	DESCRIPTION OF THE AFFECTED ENVIRONMENT .....	19.7-2
19.7.4	IMPACTS OF PROPOSED CONSTRUCTION, OPERATIONS, AND DECOMMISSIONING .....	19.7-20
19.7.5	ALTERNATIVES .....	19.7-23
19.7.6	CONCLUSIONS.....	19.7-28