

TABLE I-1

## Quantifiable Environmental Impacts and Cost

	<u>Alternative 1</u> <u>Continued Tank</u> <u>Farm Operation</u>	<u>Alternative 2</u>			<u>Alternative 3</u> <u>Liquid in</u> <u>SRP</u> <u>Bedrock</u>
		<u>Subcase 1</u> <u>Glass Shipped</u> <u>to Offsite</u> <u>Repository</u>	<u>Subcase 2</u> <u>Glass in</u> <u>SRP Surface</u> <u>Storage</u>	<u>Subcase 3</u> <u>Glass in</u> <u>SRP</u> <u>Bedrock</u>	
Occupational Radiation Exposures Based on SRP Experience, man-rem <sup>a</sup>	360	3,800	2,700	2,400	42
Offsite Population Dose risk, man-rem <sup>b</sup>	1,400	650	220	340	62,000
Offsite Population Dose Risk, man-rem <sup>c</sup>	24,000	-	-	-	-
Offsite Population Dose Risk, man-rem <sup>d</sup>	2,300	650	340	340	140,000
Non-nuclear Accidental Fatalities from Construction and Operations	17.1	6.5	6.6	6.2	2.2
Budgetary Cost, millions of 1980 dollars <sup>e</sup>	510	3,600	3,750	3,610	755

a. Campaign totals for all workers.

b. Consequences times probabilities, summed over all events and integrated for 300 years.

c. Assuming tanks are abandoned after 100 years, according to proposed EPA criterion.

d. Integrated for 10,000 years.

e. Includes capital and operating costs.

TABLE I-2

## Summary of Difficult-to-Quantify Factors

	<u>Alternative 1</u> <u>Continued Tank</u> <u>Farm Operation</u>	<u>Alternative 2</u>			<u>Alternative 3</u> <u>Liquid in</u> <u>SRP</u> <u>Bedrock</u>
		<u>Subcase 1</u> <u>Glass Shipped</u> <u>to Offsite</u> <u>Repository</u>	<u>Subcase 2</u> <u>Glass in</u> <u>SRP Surface</u> <u>Storage</u>	<u>Subcase 3</u> <u>Glass in</u> <u>SRP</u> <u>Bedrock</u>	
Relative Degree of Action required by Future Generations	High	Low	Moderate	Low	Low
Relative Compliance with Public Expectations	Low	High	Moderate	High	Moderate
Conformance with Policies of S. C. and Ga. State Governments	Low	High	Moderate	Low	Low
Conformance with NRC Regulations for Commercially-Generated Waste	Low	High	Moderate	High	Low
Potential for Regrets if Future Economics or Technology Indicate a Better Method <sup>a</sup>	Low	High	Moderately High	High	High
Likelihood of Successful Attainment of Required Implementation Technology	Highest	High	Higher	Moderate	Moderate
Effect on Implementation Date Relative to Alternative 2	Shortens	-	None	Lengthens	Lengthens
Requires Additional Management of Decontaminated Salt	No	Yes	Yes	Yes	No

a. This factor involves both the ease of retrievability from the storage or disposal site and the ease of separating the radioactive constituents from the waste form.