TABLE XI-9

Summary of Costs and Exposure Risks for Alternative 3: Unprocessed Waste Slurry Disposed of in SRP Bedrock

Event	*Population Dose for Maximum Year, man-rem*	*Probability, events/year*	*Maximum Risk, man-rem/year*
Removal From Tanks			
Routine Releases	1.4	1.0	1.4
Sludge Spill	1.5×10^{1}	5.0×10^{-2}	7.5×10^{-1}
Spill at Inlet	3.7×10^{1}	5.0×10^{-2}	1.9
Tornado	5.4×10^{1}	6.0×10^{-4}	3.2×10^{-2}
Spill	1.1×10^{3}	5.0×10^{-3}	5.4
Explosion	3.0×10^{4}	1.0×10^{-4}	3.0
Sabotage	3.5×10^{5}	1.0×10^{-5}	3.5
Below-Ground Leaks	1.7×10^{5}	1.0×10^{-5}	1.7
Processing	Not Applicable		
Transportation	Not Applicable		
Storage			
Expected Releases	1.3×10^{2}	1.0	1.3×10^{2}
Earthquake With Shaft Open	3.8×10^{8}	3.3×10^{-5}	1.3×10^{4}
Earthquake After Sealing	8.3×10^{6}	3.3×10^{-6}	2.8×10^{1}
Sabotage Before Sealing	1.5×10^{9}	1.0×10^{-5}	1.5×10^{4}
Sabotage After Sealing	1.4×10^{7}	3.3×10^{-10}	4.6×10^{-3}

Time-Integrated Risk, man-rem (300 yr)	6.2×10^{4}
Risk Value at $1000/man-rem, millions	$62
Budgetary Cost, millions	$755
Total Cost, millions	$817
Incremental Cost-Risk	-$6500[a]
Time-Integrated Risk, man-rem (10,000 yr)	1.4×10^{5}
Natural Background Exposure, man-rem (10,000 yr)	1.0×10^{10}
Possible Waste Management Health Effects	28
Health Effects from Natural Background	2,000,000

a. The negative value indicates this alternative is more expensive and has higher risk than Alternative 1.